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# APPENDIX TO THE JOURNALS

F THE

# **SENATE AND ASSEMBLY**

OF THE

TWENTY-NINTH SESSION

OF THE

LEGISLATURE OF THE STATE OF CALIFORNIA.

VOLUME II.



SACRAMENTO:

STATE OFFICE, : : : : A. J. JOHNSTON, SUPT. STATE PRINTING. 1891.

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# CONTENTS.

- 1-Annual Report of Secretary to the Board of Regents of the University of California.
- 2-Report of the Board of Trustees of State Normal Schools.
- 3-Biennial Report of Board of State Harbor Commissioners.
- 4—Biennial Report of the Board of State Harbor Commissioners for the Bay of San Diego.
- 5—Biennial Report of the Commissioners to Manage Yosemite Valley and the Mariposa Big Tree Grove.
- 6-Fifth Annual Report of the Board of Dental Examiners.
- 7-Sixth Annual Report of the Board of Dental Examiners.
- $8\mathrm{--Biennial}$  Report of the State Board of Fish Commissioners.
- 9—Tenth Annual Report of the State Board of Prison Directors.
- 10-Eleventh Annual Report of the State Board of Prison Directors.
- 11-Biennial Report of the Trustees of the Napa State Asylum for the Insane.
- 12—Biennial Report of the Directors of the Insane Asylum at Stockton.
- 13—Biennial Report of the Trustees of the State Insane Asylum at Agnews.
- 14—Fifth Annual Report of the Trustees of the Home for Feeble-Minded Children.
- 15-Sixth Annual Report of the Trustees of the Home for Feeble-Minded Children.
- 16—Nineteenth Report of the Directors of the Institution for the Deaf and Dumb, and the Blind.
- 17-Fifth Annual Report of the Directors of the Home for the Adult Blind.
- 18—Sixth Annual Report of the Directors of the Home for the Adult Blind.
- 19-Report of the Trustees for the Reform School at Whittier.
- 20-Biennial Report of the Secretary of the Preston School of Industry.

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# ANNUAL REPORT

F THE

# SECRETARY TO THE BOARD OF REGENTS

OF THE

# UNIVERSITY OF CALIFORNIA,

FOR THE YEAR ENDING JUNE 30, 1890.



# SACRAMENTO:

STATE OFFICE, :::::: J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# TABLE OF CONTENTS.

A	PAGE
Absence, leaves of	
Account with the University Fund	212
Advances	14
Agriculture, bill for support of College of	
Agriculture, College of	51, 18
Agricultural Experiment Stations, Committee on	10, 14
Agricultural Experiment Station Fund25,	52, 69, 166
Alameda Water Co., pipes of	
Apparatus, purchase of	
Appointments of Professors	
Appointments of Associate Professors	41, 4
Appointments of Assistant Professors	41, 4
Appointments of Instructors	( 4
Appointments of Lecturers	′ 4′
Apportionment of Reese Fund	62, 7
Arms, insurance of U.S.	
Ashburner Memorial Clock, bill of	
Ashburner Memorial Clock, report on	35, 3
Auditor, report of University	77, 7
В	
Balance, trial	15
Berkeley, Colleges at	49, 50, 5
Berkeley, residence at	
Bids for binding books	
Bids for New Chemical Laboratory	
Bids for painting	65, 6
Bill for support of Colleges of Agriculture and Mechanic Arts, etc	12
Board meetings, rooms for	
Board of Regents.	9, 1
Bonds, redemption of	
Bonds and mortgages, statement of	
Books, binding of	
Budget, Agricultural Experiment Station	
Budget, annual	2, 23, 24, 2
Buildings	
c	
Cadets, officers of University	8
Cash capital	
Certificates of deposit, lost	1
Chemical Laboratory, bids and contracts for	31, 3
Chemical Laboratory, changes in plans of	3
Chemical Laboratory, equipment of	3
Chamical Tahanaham Assailana and Assiana Ca	

	PAGE.
Chemical Laboratory, new	
Chemical Laboratory, Professor Rising detailed to examine laboratories	
Chemical Laboratory, purchase of apparatus for	
Chemical Laboratory, Superintendent of	32
Claims17,	19, 21, 57
Cogswell, H. D., conveyance to	
College of Agriculture	51, 183
College of Chemistry	
College of Civil Engineering	
College of Letters	49, 50
College of Mechanics	50, 198
College of Mines	<b>49, 199</b>
College of Dentistry; degrees conferred	
College of Law; degrees conferred	48
.College of Medicine; degrees conferred	48
College of Pharmacy; degrees conferred	
Colleges at Berkeley; degrees conferred	49
College celebrations	
Committee, report of Finance, on removal of Department of Physics	35
Committee, report of, on Geological Survey material.	
Committee, report of, on Internal Administration	. 18, 45
Committee, report of Law	
Committee, report of, on Water Supply	,
Committee, special, on Ashburner memorial clock	
Committee, special, on New Chemical Laboratory	,
Committee, special, on leave of absence	
Committees, standing	
Committee, standing, on Agricultural Experiment Stations	
Committee, standing, on Grounds and Buildings	,
Committee, standing, on Internal Administration	
Committee, standing, on Law	9. 10
Committee, standing, on Library and Museum	
Committee, standing, on Lick Observatory	
Consolidated Perpetual Endowment Fund	
Contracts, enforcement of land	
Contracts, New Chemical Laboratory	
Conveyance to H. D. Cogswell	
Cottages	
Cottage repairs	
Crocker, thanks to Regent	
Custody of papers	27
, v. p.	-,
D	
Deamer, W. W., claim of	17
Department of Dentistry, titles of Professors of	41
Department of Physics, removal of	<b>35</b> ,
Degrees conferred47, 48, 49,	
Diploma Fund	14, 17
Diploma Fund book, statement from	72
Disbursements and receipts	9, 152
Donations57, 63, 6	
Donations to the Library64	1, 116
Duplicate diplomas	

	TO		
Eclipse of year 1890	PAGE. 61		
Engineer, services of			
Entrance examinations			
Equipment of Chemical Laboratory, Professor Rising on			
Equipment and repairs.			
Excess payments.	-		
Excess payments, return of			
Experiment Station Fund			
Expressage	164		
134 h (100 and 1)			
F ~			
Finance Committee, reports of14, 15, 16, 17, 23, 27, 30, 40,	41. 53		
Financial and other statements	67		
Fire alarm.	65		
Fuel	158		
Fund, Agricultural Experiment Station25, 52, 68			
Fund, Consolidated Perpetual Endowment			
Fund, Diploma			
Fund, Frank J. Walton Memorial Loan	26		
Fund, Lick Observatory	154		
Fund, D. O. Mills	154		
Fund, Reese62, 70			
Fund, principal of Land.	17		
Fund, Tompkins Endowment	156		
Fund, University Medal	155		
Fund, University (one-cent)67, 155	. 212		
Fund, special 6			
Furniture and fittings for New Chemical Laboratory.	34		
	r turniture and littings for New Chemical Laboratory		
G			
G	<b>V</b> 2		
Geological Survey material			
Geological Survey material	131		
Geological Survey material	131		
Geological Survey material	131		
Geological Survey material	131 210		
Geological Survey material	131 210		
Geological Survey material	131 210 10 48		
Geological Survey material	131 210 10 48		
Geological Survey material	131 210 10 48		
Geological Survey material	131 210 10 48 58		
Geological Survey material	131 210 10 48 58		
Geological Survey material 10, 27, German Library H  Hager, memorial of the late Regent Hastings College of the Law; degrees conferred Hotel on Mount Hamilton I  Improvement of streets Incidental expenses	131 210 10 48 58 65 164		
Geological Survey material	131 210 10 48 58 65 164 68 18		
Geological Survey material	131 210 10 48 58 65 164 68 18		
Geological Survey material	131 210 10 48 58 65 164 68 18 165		
Geological Survey material	131 210 10 48 58 65 164 68 18 165 36		
Geological Survey material	131 210 10 48 58 65 164 68 18 165 36 68		
Geological Survey material	131 210 10 48 58 65 164 68 18 165 36 68 14		
Geological Survey material	131 210 10 48 58 65 164 68 18 165 36 68 14		
Geological Survey material	131 210 10 48 58 65 164 68 18 165 36 68 14		

	PAGE.
Land Committee, reports of	18, 19, 20, 21, 22
Land Department, receipts of	76
Land grant, condition of	76, 86, 87, 88, 89, 90, 91, 92, 93
Land patents	22, 94
Law Committee, reports of	66, 67
Lease to R. F. Morrow	54
Leaves of absence	40
Le Conte, Joseph, examination of mollusca by	63
Library	62, 79, 80, 81, 208
Library, donations to the	
Library, expenditures from the General Fund for the	<b> 72</b>
Library, German	
Library, President Davis' exchange with the	
Librarian, recommendation of the	80, 81
Library, Reese	70, 210
Library, State appropriation	
Lick Astronomical Department	54, 55, 56, 138, 200
Lick Mausoleum, improvements to	10, 54
Lick Observatory, Department of	54, 55, 56, 138, 200
Loans, custody of papers of	27
Loans of current year	68
Loans, payments of	
	-
${f M}$	
Manual, new edition of	14
Mechanic Arts, bill for support of College of	128
Mechanics, College of	50, 198
Meetings, regular, of the Board of Regents	9. 18
Meetings, room for Board	10. 18
Memorial of the late Regent Hager	
Memorial Loan Fund, Frank J. Walton	
Military Department	
Mines, College of	
Mineralogical Department	
Mollusca, purchase of	
Morrill Senate bill	
Mortgages and bonds, statement of	154
Mortgages, release of	16
Mount Hamilton Stage Co.	
Museum	
0	
Officers of University Cadets	81
Official and lecturing expenses	
•	100
P	•
Painting, bids for	65. 66
Painter, employment of	
Palmer House	
Patents, Land	
Payment of loans	
Physics, Department of	85 20A
Physical Culture, Department of	

Pipes of Alameda Water Company	PAGE.
Postage	
Post Office on Mount Hamilton	
Principal of Land Funds	
Printing	61, 163
Printing office	
Professors, appointments of	
R	••
Raymond, W. G., bill of	
Real estate, investment in	
Receipts and disbursements68,	69, 152
Receipts and disbursements of Reese Library Fund.	
Redemption of bonds	. 15
Reese Fund70,	
Reese Fund, apportionment of	
Regent Hager, memorial of the late	
Regent's Manual, new edition of	
Regents, regular meetings of the	9, 13
Regents, transactions of the Board of	13
Register, preparation of	14
Release of mortgages	16
Reports of Committee on Grounds and Buildings	65
Report of Dean of College of Dentistry	47, 48
Report of Dean of College of Medicine	48
Report of Dean of College of Pharmacy	47
Reports of Finance Committee14, 15, 16, 17, 23, 27, 30, 40,	41, 53
Reports of Land Committee18, 19, 20,	21, 22
Reports of special committees	
Resignations	39
Rising, Professor, on equipment of Chemical Laboratory	· 33
Rising, Professor, detailed to examine Chemical Laboratories	34
Roads	82
8	
Salaries	158
Salary, increase of	18
Senate bill, Morrill.	
Sidewalks, repairs of	64. 82
Special committees.	10
Standing committees9,	
State appropriation for Library	72
	67
Statements	154
Statement of bonds and mortgages.	152
Statement of receipts and disbursements	164
Stationery	65
Street improvements.	32
Superintendent of New Chemical Laboratory	
Supreme Court decisions	146
<b>T</b>	
Telegraph-telephone line, repairs of	59
Telegraph Company, form of agreement with Western Union	59
Telegraphing and expressage	164

#### CONTENTS.

Titles of Professors of Dental Department       41         Tompkins Endowment Fund, condition of       156         Transactions of the Board of Regents       13         Trial balance for June, 1890       153         Tunnel, use of       64         U       U         University buildings       36, 84         University Fund, account with the       155, 212         University Medal, award of       51         University Medal Fund, condition of       155         University publications       46         University site, condition of       64, 81         University site improvements       210         V       Value of University property       67         W       Walton, Frank J., Memorial Loan Fund       26         Water supply       27, 28, 29, 30, 83, 166         Water, cost of       73	Without Professions of Dontal Department	PAGE
Transactions of the Board of Regents.       13         Trial balance for June, 1890.       153         Tunnel, use of.       0         U       U         University buildings       36, 84         University Fund, account with the       155, 212         University Medal, award of       51         University Medal Fund, condition of       156         University publications.       46         University site, condition of       64, 81         University site improvements       210         V       V         Value of University property       67         W       W         Walton, Frank J., Memorial Loan Fund       26         Water supply       27, 28, 29, 30, 83, 166	Titles of Professors of Dental Department.	41
Trial balance for June, 1890	Tompkins Endowment Fund, condition of	` 156
Tunnel, use of		
U University buildings		
University buildings	Tunnel, use of	64
University Fund, account with the	<b>U</b> .	
University Fund, account with the	University buildings	36, 84
University Medal, award of	University Fund, account with the	155, 212
University Medal Fund, condition of	University Medal, award of	
University publications	University Medal Fund, condition of	156
University site, condition of		
University site improvements		
V Value of University property	University site improvements	910
W       W         Walton, Frank J., Memorial Loan Fund       26         Water supply       27, 28, 29, 30, 83, 168		210
W Walton, Frank J., Memorial Loan Fund	v	
Walton, Frank J., Memorial Loan Fund	Value of University property	67
Water supply27, 28, 29, 30, 83, 166	w	
Water supply	Walton, Frank J., Memorial Loan Fund	26
Water, cost of73	Water supply	27, 28, 29, 30, 83, 166
	Water, cost of	73

# ANNUAL REPORT

OF THE

#### SECRETARY TO THE BOARD OF REGENTS OF THE UNIVERSITY OF CALIFORNIA.

To the honorable the Regents of the University of California:

GENTLEMEN: I have the honor to submit my report for the year ending June 30, 1890.

### BOARD OF REGENTS.

#### EX OFFICIO REGENTS.

His Excellency R. W. Waterman, Sacramento, Governor, ex officio President of the Board.
His Honor Stephen M. White, Los Angeles Lieutenant-Governor.
Hon. Robert Howe, Sonoma Speaker of the Assembly.
Hon. Ira G. Hoitt, A. M., Sacramento State Superintendent of Public Instruction.
Hon. Christopher Green, Sacramento President of the State Agricultural Society.
David Kerr, Esq., 47-49 Beale Street, S. F. President of the Mechanics Institute.
Horace Davis, LL.D., San Francisco President of the University.

#### APPOINTED REGENTS.

Horatio Stebbins, 1609 Larkin Street, San Francisco	.Term expires 1894.
Louis Sloss, Jr., 312 Sansome Street, San Francisco	Term expires 1894.
J. West Martin, Union Bank, Oakland	.Term expires 1898.
Andrew S. Hallidie, 9 Fremont Street, San Francisco	Term expires 1892.
William T. Wallace, 799 Van Ness Avenue, San Francisco	Term expires 1902.
John Lyman Beard, Warm Springs, Alameda County	Term expires 1892.
Timothy Guy Phelps, Custom House, San Francisco	Term expires 1896.
Isaias William Hellman, Nevada Bank, San Francisco	Term expires 1902.
	Term expires 1898.
Arthur Rodgers, 309 Montgomery Street, San Francisco	Term expires 1906.
George Jennings Ainsworth, North Temescal	.Term expires 1900.
Delphin Michael Delmas, 310 Pine Street, San Francisco	Term expires 1900.
	Term expires 1906,
Columbus Bartlett, 12 Montgomery Street, San Francisco	Term expires 1896.
Charles Frederick Crocker, cor. Fourth and Townsend Streets, S. F.	Term expires 1904.
James Franklin Houghton, 216 Sansome Street, San Francisco	Term expires 1904.

Regular meetings of the Board of Regents are held fourteen times a year, viz.: on the second Tuesday in each month, and on the last Tuesday in May, and on the Tuesday preceding the last Wednesday in June.

April 1, 1890, His Excellency Governor R. W. Waterman appointed Louis Sloss, Jr., in the place of John S. Hager, deceased.

#### STANDING COMMITTEES.

# For the Year ending June 30, 1890.

Endowment, Finance, and Auditing.—Regents Hallidie, Stebbins, and Marye.

Grounds, Buildings, and Other Property.—Regents Martin, Phelps and Ainsworth.

Law.—Regents Wallace, Rodgers, and ——.

Congressional Land Grant.—Regents Rodgers, Beard, and Crocker.

Library and Museum.—Regents Hager, Stebbins, and Delmas. Lick Observatory.—Regents Phelps, Hager, and Bartlett.

For the Year ending June 30, 1891.

Finance and Audit.—Regents Hallidie, Miller, and Hellman. Grounds and Buildings.—Regents Martin, Miller, and Kerr. Law.—Regents Wallace, Rodgers, and Delmas. Congressional Land Grant.—Regents Rodgers, Houghton, and Beard. Lick Observatory.—Regents Phelps, Crocker, and Delmas. Library and Museum.—Regents Stebbins, Bartlett, and Sloss. Internal Administration.—Regents Marye, Stebbins, and Bartlett. United States Agricultural Experiment Stations.—Regents Houghton. Ainsworth, and Martin.

#### SPECIAL COMMITTEES.

On Instructors in English and in Modern Languages.—Regents Rodgers, Hager, Stebbins, and Davis.

To Place the Ashburner Clock.—Regent Houghton and Committee on

Grounds and Buildings.

Regarding Material of State Geological Survey.—Regents Davis and Stebbins.

Leave of Absence of Professor Moses.—Regents Rodgers, Stebbins, and Houghton.

On Selection of a Professor of Military Science and Tactics.—Regents Rodgers, Bartlett, and Houghton.

On Selection of a Room for Board Meetings.—Regents Houghton, Hallidie, and Sloss.

On the Nomination of Standing Committees for the Year.—Regents

Hallidie, Martin, and Bartlett.

On the Building of the James Lick Tomb on Mt. Hamilton.-Joint committee consisting of the Committee on Lick Observatory and Finance Committee.

#### MEMORIAL OF REGENT JOHN SHARPENSTEIN HAGER.

Presented and read by Regent D. M. DELMAS at a meeting of the Board held May 13,

Regent Delmas presented the following memorial, which was adopted and ordered spread on the minutes:

Hon. John S. Hager, a member of the Board of Regents of the University of California, having died on the nineteenth day of March, 1890, the undersigned, who were appointed a committee for the purpose, beg to submit the following memorial of his private life and public services:

private life and public services:

John S. Hager was born in German Valley, Morris County, New Jersey, on March 12, 1818, and had just entered upon his seventy-third year when the hand of death was laid upon him. He came of German ancestors, who, during the religious troubles that beset their native land early in the eighteenth century, expatriated themselves to Holland, whence they shortly afterwards emigrated to this country. They landed at Philadelphia in 1707, and, after a short period of rest, settled in company with a band of fellow exiles upon a stretch of unoccupied land in New Jersey, on the south bank of the Raritan. Their new home shortly became a thriving colony—the German Valley of to-day—and is still in the possession of the descendants of these first settlers. During the war of the Revolution, it furnished many recruits to the patriot army, and General Washington found in its sons some of his bravest soldiers and most capable officers.

The subject of this memorial spent his boyhood on his father's farm, and when old enough to receive instruction, evinced such a marked aptitude for learning that his par-

ents gave him every educational advantage within their power. He was prepared for college, sent to Princeton, and there fulfilled the promise of his youth by obtaining his degree of Bachelor of Arts at the age of eighteen. After graduating he continued his academic studies, to which he added a course of law, under the instruction of Senator J. W. Miller, of Morristown, New Jersey. A couple of years later the degree of Master of Arts was conferred upon him. In 1840 he was admitted to the bar, and commenced

to practice at Morristown. Eight years afterwards he started for California.

He arrived here in the spring of 1849, and, after a short residence in San Francisco, joined the Argonauts in their rush to the gold regions. For some months he engaged in formed the Argonauts in their rush to the good regions. For some months in engaged in trade and mining ventures at Bear River and Gold Run, but tiring of these pursuits and foreseeing the great future of San Francisco, he closed up his business in Nevada County and reached the metropolis in time to celebrate the New Year. He returned here to the profession, and soon secured a large practice. Two years later we find him entering upon the stage of politics as a State Senator. In his new career he won from the start the

the stage of pointies as a State Senator. In his new career he won from the start the confidence of his constituents by the unyielding uprightness of his conduct, and the respect of his colleagues by the stern sense of duty which guided all his deliberations.

After the expiration of his term in the Senate, Mr. Hager was in 1855 elected, on the Democratic ticket, District Judge of the Fourth Judicial District, for a full term of six years. His opponents were L. Sawyer, E. W. T. Sloan, and Alexander Campbell, over all of whom he received a majority. During his judicial career he witnessed the splitting of the Democracy by factional disputes, the first and rapid growth of the Republican party and among other memorable events the first political contests which resulted can party, and among other memorable events, the fierce political contests which resulted in frequent bloody duels between the leaders. No fewer than sixty charges of homicide in frequent bloody duels between the leaders. No fewer than sixty charges of homicide were tried before him, the most noted one being the case of Charles Cora, charged with the murder of General William H. Richardson, in November, 1855. It was on the trial of this cause that the lamented Colonel Baker made the memorable speech in the prisoner's defense, which brought about a disagreement of the jury. On the civil calendar of his Court, Judge Hager had many important suits to try. Chief among them was the protracted litigation arising out of the failure of the house of Adams & Co.

After the Terry-Broderick duel, when David S. Terry was brought to the bar for his share in the transaction, he granted the motion of his lawyers for a change of venue, on the ground that every intelligent person had formed an opinion in the case, and that it therefore became his bounden duty to do so. Later on, when the Broderick will contest came up before him, he did not hesitate to decide that the pretended will was a forgery—an opinion that has since been very largely shared in by those having an interest in the matter—the decision of the Probate Court to the contrary, notwithstanding.

On retiring from the bench, Judge Hager made a three years' tour of the Old World, including travels through Asia and Africa as well as Europe. Some eighteen months after

including travels through Asia and Africa as well as Europe. Some eighteen months after his return home, in 1865, he made his appearance once more in politics; defeated his Republican opponent, William H. Sharp, and was elected Democratic State Senator at the special election called to fill the vacancy created by the resignation of John H. Redington. For the succeeding sessions he continued to serve in the Senate, and the greater part of the time presided as Chairman of the Judiciary Committee. While he aided, as far as in his power, in advancing bills favorable to the public good, he was the inveterate

far as in his power, in advancing bills tavorable to the public good, he was the inveterate foe of all that savored of dishonesty.

But it is chiefly as a friend of the University of California that his services as a legislator are gratefully recalled by us on this occasion. To his action and wise management as Chairman of the joint committee of the Senate and Assembly is largely due the framing and the passage of the bill by virtue of whose provisions we are here assembled as a Board of Regents. Nor were his labors limited to the cause of the higher education which may be pursued in the halls of Berkeley; he was ever a wise and discriminating friend of the common schools and a goalows promotor of their officiency. which may be pursued in the hans of berkeley; he was ever a was and constraint and friend of the common schools and a zealous promoter of their efficiency. As a member of this Board from its earliest establishment, we, who for many years have met him in this chamber, will ever recall with grateful memory the unvarying courtesy of his deportment, the wisdom of his counsel, and the unflagging devotion with which he attended to the interests of the University.

In 1872 he succeeded Eugene Casserly as United States Senator and served two

customs of San Francisco from President Cleveland, and held the office from 1885 to 1889, in the March of which year he resigned. Of the other political offices he was chosen to fill may be mentioned, membership in the Constitutional Convention of 1879, and the Presidency of the Board of Freeholders elected to prepare a charter for the City of San Francisco in 1889. of San Francisco in 1882.

Judge Hager married at St. Louis, Mo., in October, 1872, the daughter of James H. Lucas, a leading banker of that place, and leaves his widow and two daughters to mourn Lucas, a leading banker of that place, and leaves his widow and two daughters to mourn his loss. To few men has it been allotted to fill a larger space in public life or reap honors more varied, abundant, and lasting. Whether as a legislator in the early dawn of our State government; as a Judge during the troublesome times of the Vigilance Committee; as a Senator in the halls of the National Congress; as a member of the Convention which gave us our present Constitution; as the chief Federal officer upon this coast under the administration of President Cleveland; or as a life-long member of this Board, the name of John S. Hager is written upon every page of the history of Callifornia; consecrated by high public services, whose formelits are reaped by the present generation, and whose high public services, whose benefits are reaped by the present generation, and whose memory posterity will not unwillingly recall.

D. M. DELMAS. ARTHUR RODGERS. GEORGE T. MARYE, Jr.

The Secretary was directed to send a copy to the family of the deceased Regent.

#### REMARKS BY REGENT DELMAS.

MR. PRESIDENT, AND GENTLEMEN OF THE BOARD OF REGENTS: I cannot permit this occasion to pass without referring, in a few brief words, to the eminent services and the intellectual relations of the late Regent Hager with the University of California, and, likewise, to give expression to the sentiments of respect, and of esteem, and to the feelings of friendship entertained for him by the members of this Board, and also in appreciation of the high estimation in which he was held by the people of the State of California, both as a public man and as an eminent citizen.

We little thought at a recent meeting of the Regents, held in this city, that in less than one week's time we would be called upon to mourn the sudden death of Regent Hager. He was present at that session of the Board, and participated in its deliberations, seemingly in his usual health and vigor, without any indications whatever of so sudden a ter-

mination of his life.

Regent Hager was prominent and conspicuous in that galaxy of distinguished men who constituted the first Regency of the University of California. Gentlemen selected from the State at large, with special reference to their high character, and for their recognized ability and learning, to inaugurate and lay deep and strong the foundations of the

University in conformity with the law of its organization.

Governor Haight, Holden, Friedlander, Tompkins, Butterworth, Ralston, Felton, Dwinelle, Moss, Merritt, and later, Watt, Casserly, McKee, Winans, Ashburner, Redding; most of these Regents had gone over the dark waters before him, but their names and their fame will be found written upon every page of the records of the University, in testimony of their fidelity to the high trust of the Regency, and will stand as a monument to their memory forever.

Mr. President, in whatever light we view the life and character of Regent Hager, whether as a distinguished member of the judiciary of the City of San Francisco, or as an honest and incorruptible representative of that metropolis in the Senate of the State of California, or as a member of the Constitutional Convention of the State, as a Federal Collector of the Port, as Regent of the University of California, or as Senator of the United States, in every public station to which he had been accredited his official administration was characterized by the most signal ability and unquestionable integrity.

Mr. President, the life and character of Regent Hager was more beautifully exemplified and shown brightest in the sanctuary of his own hospitable home, where, as an affectionate husband, father, and benefactor, his name and his memory will be cherished and revered forever.

Mr. President, eulogy upon the life and character of public men who have discharged all trusts committed to their keeping with perfect fidelity, and have met the full measure of public expectation and approbation in all the relations and responsibilities of life, is eminently proper, and in this sense, and in the sense of a warm personal friendship, I offer this brief tribute to the memory of the late Regent Hager.

# TRANSACTIONS OF THE BOARD OF REGENTS.

#### Room for Board Meetings.

Regent Houghton moved that the committee appointed to select a room for Board meetings be authorized to rent the room in the Williams & Bixby building, 320 Sansome Street, recommended by the committee for \$30 per month, and that the committee be authorized to expend \$500 in furnishing said room. [Carried, May 27, 1890.]

# 1. Amendments to and Interpretations of By-Laws, etc.

# Meetings of the Board of Regents.

Regent Bartlett then called up his notice to amend Article 365 of Regents' Manual, as follows: Amend Article 365 by striking out the words "September, December, March, and the last Tuesday in May," and insert in lieu thereof the words "of each and every month and the last Tuesday in May of each year." [Adopted, May 18, 1890.]

Article 365 as amended now reads: "The regular meetings of the Board shall be on the second Tuesday of each and every month, the last Tuesday in May, and on the Tuesday preceding the last Wednes-

day of June of each year."

#### Committee on Internal Administration.

Regent Hallidie called up his notice of December 10, 1889, informing the Board of his intention to move an amendment to Article 374, Regents' Manual, by adding to the list of standing committees, a Committee on Internal Government and Education, and submitted the following:

"Proposed New Committee.—Whose duty shall be to consider and report on questions affecting appointments, promotions, transfers, and the compensation of professors and others on the educational staff of the University, and to confer with the President of the University on matters affecting the government of the various departments of the University."

On motion, the title was made to read "Committee on Internal Ad-

ministration."

The article as given above and as amended was then adopted. [January 18, 1890.]

A motion to change the number of the Committee on Internal Administration, and make the number five, was lost.

A ballot was then ordered.

The Chair directed the Secretary to collect and count the ballots.

The votes were counted as follows: Marye, 8; Stebbins, 6; Delmas, 7; Bartlett, 2; Hager, 3; Hoitt, 1; Houghton, 1; Rodgers, 4; Hallidie, 1.

Thereupon the Chair announced that Regent Marye, having received eight votes, Regent Delmas, seven votes, and Regent Stebbins, six votes, were elected members of the Committee on Internal Administration. [Adopted, January 18, 1890.]

## Revised Edition of the Regents' Manual.

ANNUAL REPORT OF THE

Regent Rodgers offered the following:

Resolved, That the resolution requesting the Law Committee to prepare an appendix to the Regents' Manual be amended by authorizing the preparation of a revised edition of the Regents' Manual, instead of an appendix. [Adopted, January 18, 1890.]

The manuscript of the revised edition is nearly completed.

# Committee on Agricultural Experiment Stations.

Regent Hallidie called up his notice to amend Article 374 of the Regents' Manual, and moved that the Committee on United States Agricultural Experiment Stations be made a standing committee. [Adopted, June 24, 1890.]

# Diploma Fund, and Preparation of the Register.

Your committee is of the opinion that the provisions of Article 449 of the Regents' Manual, as at present enacted, do not apply to students who were members of the University on June 30, 1886, and who have been members continuously ever since. Your committee is also of the opinion that the final preparation of the University Register, under the resolution adopted November 13, 1888, rests with the Board of Regents, and your committee would therefore recommend that all points of difference hereafter arising in the preparation of the Register be submitted to a committee of the Board, to be appointed for that purpose. [Report of Committee on Internal Administration; concurred in April 8, 1890.

#### 2. INVESTMENT IN REAL ESTATE.

Regent Wallace submitted the following report of the Law Committee: The Law Committee, to whom was referred the note of the counsel of the Board, to the effect that the Board, if it see fit, may invest the funds derived from the Congressional Grant of 150,000 acres in improved real estate, provided that such investment produce an income of not less than 5 per cent per annum upon the amount or amounts so invested, beg leave to report that they concur in the view of the counsel as to the authority of the Board to make such investment. [Adopted, January 18, 1890.7

We recommend the adoption of the following:

Resolved. That the Finance Committee be authorized to negotiate. subject to the approval of the Board of Regents, for the purchase of productive real estate, provided such property can be obtained as will realize an income of not less than 5 per cent net on the principal invested. [Adopted, February 11, 1890.]

Regent Hager moved that the Finance Committee be authorized to consider the propriety of purchasing unproductive real estate. [Ap-

proved, March 11, 1890.]

#### 3. Advances.

H. A. Kenyon and other agents for periodicals, reviews, etc., furnish the University with reviews, etc., for less money than the publishers. The University in this way obtains a discount of 20 per cent, the agent a discount of 10 per cent. The agents can maintain this arrangement

only when promptly paid.

We recommend, therefore, that the Treasurer be authorized to advance the money due such bills upon an order of the Finance Committee. [Report of Finance Committee; concurred in, January 18, 1890.]

#### 4. REDEMPTION OF BONDS.

Whereas, The State is about to redeem sixty-six bonds of \$1,000 each of the Funded Debt Bonds of 1873, namely, number one hundred and seventy-three (173) to number two hundred and thirty-eight (238),

both inclusive; therefore, be it

Resolved. That the State Treasurer is hereby requested to deliver to the Treasurer of the Regents of the University of California, for investment, the said sum of sixty-six thousand (\$66,000) dollars now deposited, or about to be deposited in the State Treasury to the credit of the Consolidated Perpetual Endowment Fund of the University of California, upon the presentation of this resolution, certified by the Secretary and indorsed by the Governor of the State requiring the same. [Adopted, March 11, 1890.]

Resolved, That the Treasurer of the State of California is hereby requested to deliver to Louis Sloss, Treasurer of the University of California, for collection and investment, numbers forty-five (45), forty-six (46), forty-seven (47), and forty-eight (48), of School Bonds of the Town of Alameda, par value of \$500 each, now in the hands of the State Treasurer to the credit of the Consolidated Perpetual Endowment Fund of the University of California, upon presentation of this resolution, certified by the Secretary of the Board of Regents of the University, and indorsed by the Governor of the State requiring the same. [Adopted, April 8, 1890.]

Resolved. That the State Treasurer is hereby requested to deliver to Louis Sloss, Treasurer of the Regents of the University of California, for redemption, the bonds of the City of Santa Clara numbered 167 to 172, inclusive, par value of \$500, total amount \$3,000, now deposited in the State Treasury to the credit of the Consolidated Perpetual Endowment Fund of the University of California, upon the presentation of this resolution, certified by the Secretary, and indorsed by the Governor of

the State, requiring the same. [Adopted, June 24, 1890.]

Resolved. That the State Treasurer is hereby requested to deliver to Louis Sloss, Treasurer of the Regents of the University of California, for investment, the sum of \$2,000, being the principal of Plumas County bonds numbers 7 and 9, par value \$1,000 each, now deposited in the State Treasury to the credit of the Consolidated Perpetual Endowment Fund of the University of California, upon the presentation of this resolution, certified by the Secretary, and indorsed by the Governor of the State, requiring the same. [Adopted, June 24, 1890.]

#### 5. Insurance.

We recommend that the United States arms in the basement of the North Hall be insured in the sum of \$4,000. [Concurred in, February 11, 1890.1

Regent Hallidie presented the report of the Finance Committee, as

follows:

November 20, 1888, the Board insured property at Berkeley to the amount of \$430,830, in policies running three years. The premium

ANNUAL REPORT OF THE

paid was \$7,254 80.

February 20, 1890, the policies referred to were canceled, and the return premiums, amounting to \$3,363 06, were deposited with the Treasurer of the University. February 20, 1890, new policies for three years were issued covering \$432,330, including \$4,000 on arms belonging to the United States Government, being an increase of \$1,500 on the amount insured in 1888. The premiums on the sum insured are \$4,323 30. The return premium, with an addition of \$960 24, pays the premium on \$432,330 for three years. There is thus a saving of \$2,931 50 by cancellation and reinsurance. The rate of insurance on the canceled policies was 1.68 per cent for three years, and the rate on the new insurance is 1 per cent for three years. [Approved, March 11, 1890.]

#### 6. RELEASE OF MORTGAGE.

We submit for the consideration of the Board, the application of C. H. Huffman, for a release of two thousand nine hundred and nine acres from his mortgage to the Regents. The mortgage now covers four thousand and seventy-four acres. [Report of Finance Committee; application denied, February 11, 1890.]

C. H. Huffman requests that Sections 31 and 32 of the property cov-

ered by his mortgage to the Regent's be released.

We recommend that said sections be released upon the payment by him of \$12 per acre on the land to be released. There are one thousand two hundred and eighty acres in the property sought to be released, and the sum to be credited on his mortgage will be \$15,360. [Report of Finance Committee: concurred in, April 8, 1890.]

Regent Hallidie submitted the following forms of certificates, to

accompany releases of mortgages:

#### CERTIFICATE AUTHORIZING RELEASE OF MORTGAGE.

To the Finance Committee of the Regents of the University of California: Mortgage to secure promissory note for \$—.

Regents of the University of California.

Recorded, — County, in Vol. — of Mortgages, p.—, on the—day of —, 18—.

Lide broky certific that the rate and states and states are states and states are states. I do hereby certify, that the note and mortgage above referred to has matured, and that the principal sum thereby secured, together with all interest and other charges thereon, have been fully paid.

Dated at San Francisco, on this—day of—, 18—. Treasurer of the University of California.

To the President and Secretary of the Regents of the University of California:

It appearing from the foregoing statement and certificate of the Treasurer of the University of California that the said mortgage and note therein referred to has matured, and that all the principal sum, interest and charges thereon and thereby secured have been fully paid, the President and Secretary of the Regents of the University of California are hereby requested to execute and deliver a release of said mortgage, pursuant to a resolution of said Board of Regents, duly adopted on the first day of December, 1885, to John B. Mhoon, counsel of the Board, who will, if there is no legal objection, deliver the same to the mortgage. deliver the same to the mortgagor.

Dated at San Francisco, this day of ..., 18-

Finance Committee of the Regents of the University of California.

[Approved, November 12, 1889.]

# 7. CLAIM OF W. W. DEAMER.

In the matter of W. W. Deamer's claim for \$75 the following is a statement of the case: Prior to October, 1888, the salary paid to Mr. Deamer as Recorder was \$400 per annum. In July and September, 1888, Mr. Deamer informed the President that he did not wish to be reappointed if the salary could not be increased to \$500 per annum, which statement has never been changed.

Immediately upon receipt of the Secretary's letter (about October 15, 1888) notifying him of his reappointment at the existing salary, Mr. Deamer reported to the President that he could not accept, and at this time he proposed to embody this statement in a letter to Secretary Bonté

for the information of the Board of Regents.

President Davis dissuaded him from this step, suggesting that the increase of salary might properly be expected to come before the Board of Regents as a recommendation from the Committee on Salaries. Believing that the President of the University would see that the deficiency would be made good, Mr. Deamer continued.

We therefore recommend that Mr. Deamer's claim for \$75 be paid.

[Concurred in, January 18, 1890.]

#### 8. Principal of Land Funds.

That in order to ascertain the exact amount to be credited to the different Congressional grants of land, the Finance Committee is authorized and instructed to have the books of accounts of the Land Department examined to date, and a report made thereon to the Board of Regents. [Report of Finance Committee; concurred in, April 8, 1890.]

#### 9. Interest on Diploma Fund.

Petition of the graduating class for an appropriation of the accrued interest on their diploma deposits to aid in paying the expenditures incident to Class Day Exercises.

Report of the Secretary.

On motion, \$80 was appropriated. [May 13, 1890.]

#### 10. Lost Certificates of Deposit.

# Report of the Secretary.

The application of W. D. Chapman for return of \$7 90, he having lost his certificate of deposit, was granted, the amount to be paid upon the filing of a bond by the applicant. [February 11, 1890.]

Petition of D. S. Halliday for the balance of \$10, due him on certificate of deposit No. 122, Physical Laboratory. Ordered that the said amount be paid to the applicant upon his executing a satisfactory bond.

[March 11, 1890.]

Petition of W. H. Wright for repayment of the balance due him on a lost certificate of deposit in the Chemical Laboratory. Granted, upon

19

condition that he give a bond satisfactory to the Secretary. [June 24, 1890.]

#### 11. Reports of Committee on Internal Administration.

#### Increase of Salary.

Your committee recommends that E. R. Drew, Assistant in Physics, and W. J. Raymond, Assistant in Physical Laboratory and in Mechanics, be given a salary of \$1,200 per annum, each, from the beginning of the next fiscal year, it being understood that they are to give their whole time to their duties in the University. [Concurred in, April 8, 1890.]

With reference to the application of Dr. Henry Senger for an increase of rank, your committee is of the opinion that all suggestions of promotion in rank should come, in the first instance, to the Board through the President of the University. Your committee recommends an increase in Dr. Senger's pay from \$1,500 to \$1,600 per annum to the consideration of the Finance Committee. [Concurred in, April 8, 1890.]

We recommend that the petition of the Assistant Librarian be granted, and that his salary be increased accordingly from \$75 to \$100 per month, to take effect July 1,1890. [Concurred in, May 27, 1890.]

We recommend that E. L. Greene, who is now Assistant Professor of Botany at a salary of \$1,500 a year, be given the minimum salary provided for Assistant Professors, namely, salary of \$1,800 a year, commencing July 1,1890. [Concurred in, June 24, 1890.]

# 12. Reports of the Land Committee Relating to the Congressional Land Grant of 150,000 Acres.

# Land Agent's Report.

At the request of your committee the Land Agent has prepared an explanatory report and schedule on the condition of all our land grants and sales thereof, which we decree of sufficient importance to recommend its printing. [Ordered printed by State Printer, November 12, 1889.]

#### Collections.

Resolved, That the counsel of the Board be instructed to collect the principal and interest due from purchasers of land from the University. [Adopted, September 10, 1889.]

#### Enforcement of Contracts.

Your Committee on Land recommend that the Land Agent and attorney of the Board be instructed to enforce all contracts for the purchase of land. [Concurred in, April 8, 1890.]

#### Assignments.

We recommend that no assignments be accepted unless of advantage to the University; that when the original applicant is financially responsible, he be held responsible for all money due on land. [Concurred in, January 18, 1890.]

#### Abandonment of Locations.

R. McGarvey assigned to James Hopkins location Nos. 1733 and 1734. Hopkins now desires to abandon said locations.

We recommend that R. McGarvey be held for the money due on said locations. [Adopted, January 18, 1890.]

#### Assent to Assignment.

We recommend that the deed of A. A. Wheeler to N. K. Masten, of land covered by location No. 1790, be recognized upon condition that N. K. Masten agree to pay for the same in cash. [Adopted, January 18, 1890.]

#### Repayment.

We recommend the payment of the claim of T. H. French for \$40, amount paid by him on location No. 1773\(\frac{3}{4}\). The land has never been listed, and the University cannot give title to said land; and that the Secretary be instructed to obtain a release of all claims against the Regents, the release to be prepared by the counsel of the Board. [Adopted, January 18, 1890.]

# Claim for Credit.

J. A. Long located the land covered by location No. 1324 and paid \$257 58 thereon. The claim was forfeited to the Regents for non-payment of interest, and sold to one Eby. Eby has assigned to Long, and Long now desires to have the amount paid by him before the land was forfeited, credited to him as a new purchaser on the balance of principal now due.

We recommend that said application be refused. [Concurred in, Jan-

uary 18, 1890.]

#### Excess Payments.

Return of "Excess Payment."—Resolution offered by Regent Wallace,

and petition of James and J. K. Lynch:

The United States land officers designate Government land within the exterior limits of railroad grants as double minimum, for which the purchaser must pay the Government double the ordinary price—that is, \$1 25 per acre in excess. Originally land could not be selected from this class. By the Act of June 8, 1868 (Reg. Man., p. 15), such land could be selected by taking one acre in lieu of two under the original Act. But by Act of March 13, 1871 (Id. 16), such land could be selected acre for acre, provided the State (University) should pay the United States on issuance of patent the extra \$1 25. In some instances the United States land officers assumed a railroad land grant to exist which afterwards was decided invalid, and in the meantime sold land on this assumption at \$2 50 per acre. By an Act of Congress, passed June 16, 1880, it is provided as follows:

"In all cases where parties have paid double minimum price for land, which has afterwards been found not to be within the limits of a railroad grant, the excess of \$1 25 per acre shall in like manner be

repaid to the purchaser thereof, or to the heirs or assigns."

In making sales of University lands the Land Agent required the payment of \$1 25 per acre in such cases, in addition to the \$5 per acre,

the regular price of our lands. The sum of \$—— of such excess payments has been collected, of which \$—— have been paid to the Government, and which the resolution mentioned intended to authorize the purchasers from the University to collect under the Congressional Act cited. Of the remainder in our treasury Messrs. Lynch ask \$2,042 28 paid by them on purchases from the University. It will be borne in mind that the University land was granted to the State, and by it their entire disposal was imposed on the Regents. (Reg. Man., p. 84.) The Board, wisely we think, required all purchasers of land to sign a written application or contract, of which there have been two distinct forms. The first was used until 1884, and the second subsequently. The essential difference for our purpose between the forms is that in the first or earlier the applicant agrees to pay \$6 25 per acre (for the land in question), while in the other (Reg. Man., p. 213) he agrees to pay \$5 if minimum, and \$6 25 if double minimum.

In other words, the University sold this class of lands until 1884 by an absolute contract for \$6 25 per acre, and thereafter, on a conditional contract, for \$5 or \$6 25 per acre. Petitioners urge the repayment of the excess, \$1 25 in all cases, under the claim that it was required by the University for the purpose of being paid to the Government, and this now being unnecessary, it should be returned to them. We cannot recognize this claim. The purchaser has no interest in the application of any portion of the purchase money. It is to be noted further, as to the purchases made by James Lynch, contracts extending the time of payment were made in 1882, wherein the amount of unpaid balance, calculated at the rate of \$6 25 per acre, is specified. This was no misrepresentation or mistake caused by the University. The purchaser made his own selection of land, and then agreed to pay therefor \$6 25 per acre, and received and still has what he bought.

We therefore recommend as follows:

1. That said resolution be not passed, being too general.

2. That the following resolution be adopted:

Resolved, First, that purchasers of land under the present form of contract (Art. 468, Regents' Manual, p. 213), upon application to the Land Agent, may be credited with amount of the excess payments made by them, and be paid any balance over their indebtedness, except that such credit shall not be given nor balance paid over in cases where the excess payments have been turned over to the United States land officers, until return of such excess payments to the University.

Second—That the Land Agent is authorized to apply for, and as fast as convenient, to secure the repayment to the University from the United States Land Department of all excess payments, and of all other moneys,

if any, to which the University may be entitled.

Third—That the petition of James and J. K. Lynch be denied, except as to applications of J. K. Lynch (Nos. 1769, 1770, and 1771), and that these be adjusted according to the foregoing provisions of this resolution. We add further, that James and J. K. Lynch made similar petitions to those now considered, which, on March 31, 1887, the Board denied. [Adopted, January 18, 1890.]

# Demand for Return of Excess.

San Francisco, May 27, A. D. 1890.

To the Regents of the University of California:

We, Martin Luther and Jacob Luther, and each of us do hereby most respectfully demand that you pay us the sum of \$6,762 12, heretofore collected by you from us as excess of \$1 25 per acre on what was supposed to be double minimum lands sold by you to us within the district of lands supposed to include a grant of lands by the United States to the Atlantic and Pacific Railroad Company, but within which district no grant was, in fact, made to said railroad company, and which lands so sold by you to us were not, in fact, double minimum lands, which moneys were, therefore, received by you under a mistake, and for the use and benefit of, and in trust for us and each of us.

Yours very respectfully,

# MARTIN LUTHER, and JACOB LUTHER.

By J. T. Burke, Mich. Mullany, and Wm. Grant, their attorneys.

San Francisco, Cal., May 27, A. D. 1890.

To the Regents of the University of California:

I, J. T. Burke, do hereby most respectfully demand that you pay me the sum of \$11,752 47, heretofore collected by you, in the following portions or sums from the following named persons, viz.: James Lynch, \$1,470 84; E. T. Donnelly, \$2,688 05; James K. Lynch, \$621 53; L. Godchaux, \$1,951 60; M. Brandenstein, \$1,616 81; J. M. Wood, \$50; Charles Ashton, \$150; Jesse D. Carr, \$50; Samuel A. Rachliffe, \$50; Wesley Burnett, \$250; Alexander Covner, \$113 83; Robert Gordon, \$50; S. B. Emerson, \$141 70; J. Winteral, \$50; Washington Rohrbach, \$200; W. C. Mathers, \$100; R. E. Jack, \$99 03; Lauchlin McDonald, \$50; Peter Donnelly, \$100; José G. Sanchez, \$50; Herman Tompkins, \$50; Fernando R. Farman, \$154 56; Enus Blohm, \$50; Charles Lux, \$795 39, and J. W. Cooper, \$849 13; and I hereby demand the same, as assignee of said persons, and of each of them, and which moneys were heretofore collected by you from said persons as excess of \$1 25 per acre on what was supposed to be double minimum lands sold by you to said persons, or their assignors, within the district of lands supposed to include a grant of lands by the United States to the Atlantic and Pacific Railroad Company, but within which district no grant was, in fact, made to said railroad company, and which lands so sold by you to said persons, or their assignors, were not in fact double minimum lands, and which moneys were, therefore, received by you under a mistake, and for the use and benefit of and in trust for said persons, and their successors in interest, and which successor in interest I now am, as hereinbefore stated.

Yours, very respectfully,

J. T. BURKE.

By Mich. Mullany and Wm. Grant, his attorneys.

On motion, demands denied.

#### Extension of Time.

We recommend that the application of E. H. Curtis for extension of time in paying for land in locations Nos. 1639 and 1640 be denied.

[Concurred in, November 12, 1889.]

John C. Schlarbaum makes application for further time in paying for land purchased by him from the Regents. The applicant was informed January 3, 1887, by the Land Agent, that he could have as long a time as he wished to pay the principal, and that the Regents preferred the interest. He states that he would be compelled to abandon the land if required to pay March 1, 1890. We therefore recommend the extension of time for one year, provided the applicant pays the interest promptly. [Approved, January 18, 1890.]

## Sale of Land.

C. Yager offers to purchase the S.W.  $\frac{1}{4}$ , the S.E.  $\frac{1}{4}$  of N.W.  $\frac{1}{4}$ , and the S.W.  $\frac{1}{4}$  of N.E.  $\frac{1}{4}$  of Sec. 9, Tp. 14 S., R. 2 E., 240 acres.

We recommend that said land be sold at \$7 50 per acre, cash.

[Approved, January 18, 1890.]

C. Lazear offers to purchase location No. 519, covering 80 acres of land in Yuba County, being the S. ½ of S.W. ½ of Sec. 20, Tp. 14 N., R. 4 E., at the rate of \$2 per acre.

We recommend that the land be sold for \$5 50 per acre, cash. If not paid within thirty (30) days he must vacate the land. [Concurred in,

January 18, 1890.

We recommend that A. Flint's application to purchase land covered by location No. 222, and lying in San Luis Obispo County, for \$2 per acre, be declined. [Approved, January 18, 1890.]

# Application for Patents.

We recommend that the application of Charles Faulkner for a patent on a portion of the land in locations 421 and 421½, purchased from the Regents of the University of California, be denied. [Concurred in, No-

vember 12, 1890.]

Your Land Committee reports on the application of the Sierra Lumber Company as follows: On the documents submitted in this matter it appears that the rights of applicants for the land from the Regents having been acquired by the Sierra Lumber Company, we recommend that patents for such lands be issued to such corporation upon the payment of all indebtedness on account thereof. [Adopted, May 27, 1890.]

#### 13. RELATING TO THE ANNUAL BUDGET.

#### Addition to the Budget of 1889-1890.

We recommend that \$130 be added to the budget of the Department of Physics, Associate Professor Slate in charge. [Report of Finance Committee; concurred in, November 12, 1889.]

An additional appropriation is needed for equipment and repairs. We recommend that \$400 be appropriated. [Report of Finance Com-

mittee; recommendation concurred in, April 8, 1890.]

We recommend that the sum of \$500 be added to the apportionment for equipment and repair for the current year. [Report of Finance Committee; concurred in, December 10, 1889.]

# Budget of the Year ending June 30, 1891.

The Committee on Finance and Audit have the honor to report that the estimated income for the fiscal year ending June 30, 1891, is as follows:

IOIIOM8:		
Interest on State hands (\$66 000 matures June first)		\$45,090 00
Interest on San Francisco Park and Avenue Improvement bonds	·	3,000 00
Interest on San Francisco City and County School bonds		1,800 00
Interest on State bonds (\$66,000, matures June first) Interest on San Francisco Park and Avenue Improvement bonds Interest on San Francisco City and County School bonds Interest on San Francisco Park Improvement bonds		60 00
Interest on Marin County bonds Interest on Santa Clara County bonds Interest on Alameda School bonds		3,500 00
Interest on Santa Clara County bonds		210 00
Interest on Alameda School bonds		180 00
		875 00
Interest on Kern County bonds Interest on Plumas County bonds Interest on Tehama County bonds Interest on diverted funds		1,050 00
Interest on Tahama County bonds		540 00
Interest on diverted funds		1,475 00 4 785 00
Interest on mortgages		4,785 00 48,201 12
Interest from deposits in savings banks		5,461 04
Interest on mortgages Interest from deposits in savings banks Interest on deferred payments for lands Interest on forfeited seminary lands		1,686 82
Interest on forfeited seminary lands		22 40
Land fees		250 00
Rents: Cottages, \$1,560; Palmer House, \$720		2,280 00 1,260 00
Mining I aboratory		100 00
Physical Laboratory		175 00
State University Fund (1 cent tax)		101,738 78
Consolidated Perpetual Endowment Fund, available for investm	ent, \$102,-	,,,,,,,
629 68 (including \$66,000 State bonds), of which, say \$80,000,	constantly	
invested at 6 per cent		4,800 00
Interest on forfeited seminary lands Land fees Rents: Cottages, \$1,560; Palmer House, \$720. Chemical Laboratory Mining Laboratory Physical Laboratory State University Fund (1 cent tax) Consolidated Perpetual Endowment Fund, available for investm 629 68 (including \$66,000 State bonds), of which, say \$80,000, of invested at 6 per cent Special Funds, \$4,279 74, at 6 per cent		256 78
Estimated income (gross)	-	\$228,796 94
Deduct—		φ220,180 9 <del>4</del>
Interest on Mills Endowment	\$5,290 76	
Interest on Reese Library Fund	3,062 50	
Interest on Mills Endowment. Interest on Reese Library Fund. Interest on Tompkins Endowment.	42 50	
Interest on Medal Fund	180 00	
Interest on Pioche Donation	129 60	
	120 00	0 505 00
<del>-</del>		8,705 36
_		<del></del>
Net estimated income		8,705 36 \$220,091 58
_		<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Finel	\$1,000 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel Equipment and repairs	\$1,000 00 5,000 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel Equipment and repairs	\$1,000 00 5,000 00 800 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel  Equipment and repairs  Advertising and printing  Telegraphing and expressage	\$1,000 00 5,000 00 300 00 500 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel  Equipment and repairs  Advertising and printing  Telegraphing and expressage	\$1,000 00 5,000 00 800 00 500 00 250 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel  Equipment and repairs  Advertising and printing  Telegraphing and expressage Stationery Postage	\$1,000 00 5,000 00 800 00 500 00 250 00 720 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel. Equipment and repairs. Advertising and printing Telegraphing and expressage Stationery Postage Land administration Incidental expenses and extra clerk bire	\$1,000 00 5,000 00 800 00 500 00 250 00 720 00 250 00	<del></del>
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Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel. Equipment and repairs. Advertising and printing Telegraphing and expressage Stationery Postage Land administration Incidental expenses and extra clerk hire College celebrations Official and lecturing expenses	\$1,000 00 5,000 00 800 00 250 00 720 00 250 00 1,000 00 350 00 1,000 00 2,000 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel. Equipment and repairs. Advertising and printing Telegraphing and expressage Stationery Postage Land administration Incidental expenses and extra clerk hire College celebrations Official and lecturing expenses	\$1,000 00 5,000 00 500 00 500 00 250 00 250 00 250 00 1,000 00 500 00 2,000 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel Equipment and repairs Advertising and printing Telegraphing and expressage Stationery Postage Land administration Incidental expenses and extra clerk hire College celebrations Official and lecturing expenses	\$1,000 00 5,000 00 500 00 500 00 250 00 720 00 250 00 1,000 00 500 00 2,000 00 2,000 00 8,000 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel Equipment and repairs Advertising and printing Telegraphing and expressage Stationery Postage Land administration Incidental expenses and extra clerk hire College celebrations Official and lecturing expenses	\$1,000 00 5,000 00 500 00 250 00 720 00 250 00 1,000 00 500 00 1,000 00 2,000 00 8,000 00 8,000 00	<del></del>
Budget Estimated Disbursements, 1890-91.  Fuel Equipment and repairs Advertising and printing Telegraphing and expressage Stationery Postage Land administration Incidental expenses and extra clerk hire College celebrations Official and lecturing expenses Cottage repairs Water (reduced from \$5,000) Insurance (reduced from \$500). Agricultural Department Engineering and Astronomy Chemistry and Chemical Laboratory	\$1,000 00 5,000 00 500 00 250 00 720 00 250 00 1,000 00 500 00 0,000 00 2,000 00 8,000 00 2,400 00	<del></del>
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Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel	\$1,000 00 5,000 00 500 00 250 00 720 00 250 00 1,000 00 500 00 2,000 00 8,000 00 8,000 00 2,400 00 2,400 00 300 00 300 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel	\$1,000 00 5,000 00 500 00 250 00 720 00 250 00 1,000 00 350 00 2,000 00 8,000 00 400 00 2,400 00 300 00 300 00 300 00	<del></del>
Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel	\$1,000 00 5,000 00 300 00 500 00 720 00 250 00 1,000 00 350 00 1,000 00 300 00 8,000 00 400 00 2,400 00 300 00 300 00 300 00 300 00 1,000 00	<del></del>
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Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel. Equipment and repairs. Advertising and printing. Telegraphing and expressage. Stationery. Postage. Land administration Incidental expenses and extra clerk hire College celebrations. Official and lecturing expenses Cottage repairs. Water (reduced from \$5,000). Insurance (reduced from \$500). Agricultural Department. Engineering and Astronomy. Chemistry and Chemical Laboratory Mechanics. Mines Mines Mines Mineralogy Military Physical Cultures Cympasium and Track	\$1,000 00 5,000 00 500 00 500 00 720 00 250 00 1,000 00 350 00 1,000 00 8,000 00 8,000 00 8,000 00 300 00 300 00 300 00 1,000 00	<del></del>
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Net estimated income  Budget Estimated Disbursements, 1890-91.  Fuel. Equipment and repairs. Advertising and printing. Telegraphing and expressage. Stationery. Postage. Land administration Incidental expenses and extra clerk hire College celebrations. Official and lecturing expenses Cottage repairs. Water (reduced from \$5,000). Insurance (reduced from \$500). Agricultural Department. Engineering and Astronomy. Chemistry and Chemical Laboratory Mechanics. Mines Mines Mines Mineralogy Military Physical Cultures Cympasium and Track	\$1,000 00 5,000 00 300 00 500 00 250 00 1,000 00 350 00 1,000 00 350 00 2,000 00 2,000 00 300 00 8,000 00 300 00 300 00 300 00 300 00 500 00 1,500 00 2,500 00 1,500 00 1,500 00 1,500 00 1,500 00 15,000 00	<del></del>

Amount brought forward.  Chemical Laboratory Building (\$8,000), fitting up (\$12,000)  Magazine for powder and oils, etc.  Botanical specimens preservation (\$1,250, less State Geological	\$20,000 00 1,600 00	\$51,390 )	00
Survey Fund) Salaries of Professors, etc.	1,000 00 145,099 48	) 3 - 167,699	48
Less— Mills Professorship. Paid by U. S. A. E. S. Fund.	\$4,000 00 4,720 00	, )	20
		8,720	00
Five per cent on income (\$220,091 58)		\$210,369 11,004	48 58
		\$221,374.	. 06
Total estimated income Total estimated disbursements		\$220,091 221,374	
Apparent deficiency		\$1,282	51

Most of the budget items of disbursements are based on the experience of previous years; we note, however, the following exceptions:

Physical Culture and Gymnasium, \$1,500. About \$2,175 were required in 1889-90, part of which was for apparatus, etc., not needed in 1890-91, but a running track is demanded in the gallery of the gymnasium building.

Lick Observatory, \$5,000. Heretofore \$3,600 has been appropriated, but many buildings need painting, stone walls repairing, and sundry other immediate requirements call for the additional item of \$1,400.

Library, \$2,500. One thousand dollars heretofore recommended will be insufficient, \$800 being required for binding, \$1,200 for periodicals, and \$500 recommended by Library Committee for the purchase of special books by Professor Moses.

Museum, \$720. In addition to the usual amount of \$600, \$120 authorized by the Board for completing the mounting of a mountain goat

and freight charges.

University site improvements, \$15,000. The Chairman of Committee on Grounds and Buildings estimates two bridges, \$900; ten dams, \$3,000; pavement, \$3,500; drain pipes, \$1,640; lumber, \$200; labor, \$4,500; and the cost of putting the campus in order is estimated at \$2,000; total, \$15,740.

Chemical Laboratory and fitting up, \$20,000.

Amount deposited in bank for building	\$55,000 00 8,000 00
Total	\$63,000 00
Contract for construction Extras allowed by Board Architect's fees	
Total	\$63,378 00

The committee thought that for fitting up the Laboratory, moving, etc., \$12,000 was sufficient—all that could be allowed for the first year.

Magazine for combustibles, \$1,600. The safe storage of explosives and inflammables commends itself to the favorable consideration of the Board as it has to the committee.

Botanical specimens, etc., \$1,000. The great and valuable collections left by the State Geological Survey, we are assured, need prompt atten-

tion in order to preserve them from decay and ruin, and the estimated cost of preserving and arranging them is \$1,300, of which \$250 is in the hands of the Regents from the State Geological Survey Fund. We submit the matter without recommendation.

Numerous other demands received the consideration of the committee, which were denied for want of funds, the most important of which, the proper arrangement in fire-proof vaults of the papers and archives of the University and of the Secretary's office, demands prompt attention.

On motion, \$1,000 was inserted in the budget for the preservation of botanical specimens.

Salaries, \$136,379 48.

Paid for month of April, \$11,995 79, and fixed by the Board, equal to per annum \$143,949 48 8,720 00 \$135,229 48

The following additions and changes have been recommended by the committee, or occur from changes in the personnel of the educational staff:

Professor Kellogg, returning \$3,000 0 Less Professor Howard, retiring 2,400 0	0
Less Professor Howard, retiring 2,400 0	
Instructor Senger, increase	100 00
Assistant in Department of Astromomy, nine mouths, at \$20	180 00 120 00
Richards, fireman, increase	
	\$1,150 00

United States Agricultural Experiment Stations:

From the United States		0
Disbursements.		
Salaries	\$4.840 00	
Salaries Labor	3,200 00	
Buildings	400 00	
Buildings Chemical apparatus and supplies	250 00	
Furniture	150 00	
Fancing and drainage	100.00	

Receipts, 1890.

Chemical apparatus and supplies	. 400 00
Furniture	. 150 00
Fencing and drainage	. 100 00
Freight and expressage	. 500 00-
Incidentals	. 250 00
Postage and stationery	. 300 00
Printing	200 00
Supplies	1.100 00
Tools, implements, and machinery	. 150 00
Scientific instruments	. 150 00
Traveling	. 750 00
Water supply	250 00
Unappropriated, subject to decision of Board	2.410 00
	\$15,000 00

The committee has had sixteen meetings, has considered applications for loans, and has audited and examined a large number of vouchers during the year.

The budget, its recommendations and suggestions, as amended, were adopted. [May 27, 1890.]

34

#### 14. Frank J. Walton Memorial Fund.

Berkeley, January 8, 1889.

To the honorable the Board of Regents of the University of California:

The graduates of the Class of '83 have raised a fund of about \$1,800, to be called the Frank J. Walton Memorial Loan Fund, which they wish to place in your hands as a loan fund for undergraduates, and they respectfully request your honorable body to appoint a committee to consult with the undersigned in regard to the matter.

Respectfully,

JOHN H. HANSEN, GUY C. EARL, WALTER COPE, IDA D. BENFEY, F. L. BURK, Committee from Class of '83.

In the matter of the Frank J. Walton Memorial Loan Fund, referred to the Finance Committee at the meeting of the Board held January 8, 1889, your committee recommends the adoption of the following:

The Board of Regents accepts from the members of the Class of '83 the sum of eighteen hundred (\$1,800) dollars, to be held in trust for the purposes hereinafter specified. The fund is to be known as the Frank J. Walton Memorial Loan Fund. It is to be invested by the Regents, and the income only to be loaned to the undergraduate students in the Academic Department at Berkeley, who are studying for degrees, and who have finished half their undergraduate course. The beneficiaries shall be selected by a committee, consisting of the President of the University and two members of the Academic Council, who shall be chosen by the Council for a term of three years. The choice of beneficiaries shall not be made on the ground of scholarship, but shall depend on general character and promise. The amount of the loan to each beneficiary, the term of the notes, and the question of interest, shall be left to the discretion of the said committee. The committee shall report to the Finance Committee of the Regents all receipts and disbursements on account of the fund. The promissory notes of beneficiaries shall be deposited in the office of the Secretary of the Board of Regents, but the names of the beneficiaries shall not be made public. Repayment to beneficiaries and the unused interest shall be reported to the Finance Committee, and added to the principal, and be invested by the Board of Regents. The amounts due beneficiaries shall be paid upon special requisition, signed by the committee and indorsed by the Finance Committee.

In vouchers submitted to the Board of Regents, the names of the beneficiaries shall not be inserted, and in their place shall be placed the names of the members of the Committee of the Faculty, or a majority thereof.

Whenever the repayments with the original fund shall exceed the sum of \$20,000, the committee may, in their discretion, establish out of the surplus, scholarships for undergraduates, or graduates pursuing studies at Berkeley, or make special loans for the use of graduates. [Adopted, November 12, 1889.]

# 15. THE CUSTODY OF PAPERS.

We recommend the adoption of the following rule as to the custody of papers relating to loans: "In all cases where loans are made, that the mortgage note be deposited with the Treasurer; that the application, the report of the expert, the abstract of title, the opinion of the attorney, and the mortgage be deposited with the Secretary." [Report of the Finance Committee; concurred in, February 11, 1890.]

#### 16. GEOLOGICAL SURVEY MATERIAL.

President Davis, on behalf of the special committee to which was referred the report of the sub-committee on the Geological Survey material, reported as follows: Your committee to whom was referred the report of Messrs. Bonté, Le Conte, Soulé, Christy, and Jackson, on the Geological Survey material, beg leave to report that they indorse the recommendations contained in that report, and further recommend that—

1. That the Secretary be instructed to prepare a suitable case to

hold the material; and,

2. The counsel of this Board be requested to prepare a memorial to be presented to the next Legislature, and the draft of a bill donating all this material and property to the University. [Adopted, February 11, 1890.]

The report of the committee will be found in the appendix of this

report.

#### 17. RELATING TO WATER SUPPLY.

#### Wells.

Regent Bartlett offered the following resolution:

Resolved, That the sum of \$1,000 be and the same is hereby appropriated and placed in the hands of the Chairman of the Committee on Grounds and Buildings and other property, to be used and expended under the direction of said committee in sinking wells, and in other ways exploring for water on the grounds of the University at Berkeley. [Adopted on a call of the ayes and noes, November 12, 1889.]

About fifty wells have been bored varying in depth from fifty to eighty feet. The results are not encouraging. One well will probably

yield about eight hundred gallons per day.

# Condemnation of Water Sources.

Resolved, That the attorney of the Board be instructed to inquire and report his opinion as to what springs or water sources can be condemned for the benefit of the University under an Act entitled "An Act to provide a supply of water for the University," etc. (Stats. of Cal. 1875-6), and under the general law. [Report of Committee on Water Supply; adopted, December 10, 1889.]

# Pollution of Water.

It appears from the maps and papers hereto attached, that the water heretofore taken from Strawberry Creek for the use of the University has been and is now being polluted by the establishment of cattle corrals on the branches thereof, above the point where it is taken out of the bed of the creek for use, to such an extent as to render the same unfit for and dangerous to be used: that it has been necessary to discontinue the use of said water on account of said pollution, and the flow of said stream is now turned into the said creek and running to waste, while the University is obliged to buy water for domestic use.

ANNUAL REPORT OF THE

In view of these facts your committee respectfully recommends the

adoption of the following resolution:

Resolved, First, that the maps, papers, and report of the Committee on Water Supply be transmitted to the counsel of the Board, and that the counsel be and he is hereby instructed, on behalf of the Regents of the University of California, to commence legal proceedings for damages, and to abate or restrain any nuisance caused by fouling the waters of Strawberry Creek, or other waters naturally flowing to and upon the grounds of the University at Berkeley, against any or all parties causing such damage and nuisance.

Second—That said counsel is also authorized to take appropriate action on behalf of the Regents of the University of California, to prevent the Alameda Water Co., or others, from diverting the waters of said creek. [Report of Committee on Water Supply; adopted, Decem-

ber 10, 1889.]

The dairy causing the pollution of the water of Strawberry Creek was removed, and the winter rains washed out most of the filth complained of.

#### Reservoir.

Regent Hallidie offered the following resolution:

Resolved, That the Committee on Water Supply is hereby instructed to have an examination of the proposed reservoir site on Strawberry Creek made by a competent engineer, and, if in the opinion of the committee and the engineer the proposed site is adapted for such a reservoir, and the same can be safely constructed with a capacity of three million gallons, the committee is hereby authorized to proceed with the construction of the same, at a cost not to exceed \$3,000. [Adopted, December 10, 1889.]

# Report of Engineer J. J. Cloud on Sites for Reservoirs.

Regent Phelps, Chairman of Special Committee on Water Supply, submitted the following report of engineer J. J. Cloud:

#### Hon. T. G. PHELPS:

DEAR SIR: As requested by you, I have made a cursory examination of certain proposed sites for reservoirs for the storage of water, near the State University buildings at Berkeley, from which examinations I deduce the following results: The first site examined by me is situated on the westerly slope of the hill, between one fourth and one half mile easterly from the main buildings of the University, at which point a basin can be made with a capacity of three million gallons. In order to store the above stated quantity, an embankment of seventeen feet in height will have to be constructed, which embankment would contain eight thousand seven hundred and fifty cubic yards of material. To form the basin, the amount of excavating required would be nine thousand three

hundred and seventy-two cubic yards, the amount to be excavated being slightly in excess of the amount to be used in the construction of the embankment.

The material to be obtained for the construction of the embankment is not of a first class quality, still, by using great care and discrimination in the selection of the same, and by using the best of it for the in or water side of the embankment, and by constructing a puddle-pit, say six feet wide throughout the embankment, I have no doubt but that a safe reservoir can be constructed. The elevation of the site under consideration is not sufficient to furnish water for fire purposes for all the buildings at the University, namely, the Mechanic Arts and Library buildings, but for the North and South Halls and the Viticultural building the elevation is amply sufficient. The cost of the construction of said reservoir would approximately be as follows:

Embankment puddle-pit, 1,610 cubic yards, at 50 cents	\$805 00
Main portion of embankment, 7,140 cubic yards, at 30 cents	2,142 00
Excavation in excess of quantity for embankment, 622 cubic yards, at 30 cents.	186 60
Sand box	200 00
Supply pipe from creek to reservoir	1,200 00
Laying pipe, and ditch for same	150 00
Laying pipe, and ditch for same	125 00
Total	\$4.808 60

I have also made surveys of two other points for reservoir purposes, but find that the excavations would be so great, in comparison to the capacity to be obtained, that I scarcely consider them worthy of your attention.

However, as I have obtained the data, you might wish to take it into consideration. I will give the result of the more favorable of the two. The point selected is on the southerly slope of the hill on the northerly side of Strawberry Creek, a short distance below the point where the large well was sunk about two years ago. At this point a basin can be excavated, and inclosed by an embankment of the capacity of five million five hundred and ninety-nine thousand three hundred and fiftyseven gallons, at the following expense:

Excavation—37,350 cubic yards, at 30 cents Puddle-pit—1,650 cubic yards, at 50 cents Incidentals	825	00
Total	\$12,530	00

The last place examined would be so expensive that I do not consider it worthy of your attention. The great expense attending the construction of sidehill reservoirs, as you are aware, increases as the steepness of the hill to be excavated becomes greater, so that on steep hillsides a large amount of excavation is required to obtain a small amount of storage capacity. I would respectfully represent to you that there is one site on the southerly side of Strawberry Creek, where a small reservoir could be constructed at a comparatively small expense, which would furnish water at an elevation great enough for fire purposes for all the buildings of the University. This site is on the land belonging to the University, and would take the place of the small reservoir which is now used, but is not on University property.

In consideration of the unfavorable facilities offered for the construction of hillside reservoirs, on account of the conformation of the ground, the side hill being so steep, I would recommend that if it is possible to secure all of the rights required, that a reservoir be constructed on Strawberry Creek, and a basin formed by the construction of a dam across said creek at the most favorable point to be selected. I have not all the data necessary to give a detailed or complete exhibit of the cost of such a work, but I have made such examinations as will warrant my saying that storage for a given amount of water can be secured at one half the expense in the natural basin of the creek than it can be in hillside reservoirs. By the construction of a dam at the most advantageous point of said creek, a basin that will store from twelve to fifteen million gallons can be secured at a cost not exceeding from \$10,000 to \$12,000, and in this estimate I include the cost of the following.plan: I would construct a small dam up said creek above the point in said creek to which the dam would flood the basin, and take the water out at that point by a flume, and carry the same along the side hill for a certain distance, allowing the water when carrying matter in solution to any great extent to pass through a sand box or filter, and then allowing the water to enter the reservoir. The flume I would construct of such capacity that it would carry all the water that runs in said creek during the largest storms. At such times I would allow the water to run past and enter the natural channel of the creek below the dam. By thus not permitting the water to enter the reservoir at the time when it is carrying a large amount of matter in solution, there would be no danger of the accumulation of any appreciable amount of sediment in the reservoir, and no question as to a wasteway would have to be taken into consideration, as the flume used to carry the storm water could at all times be utilized and no water allowed to enter the reservoir unless so desired.

I do not give any cost for distributing pipes, as a general system will have to be adopted, and since I have been engaged in this work, although there has been considerable time expended owing to the inclemency of the weather, I have not been able to do much instrumental work. As to the pipes necessary to carry out any of the work herein specified. there would be no pressure sufficient to try the strength of any ordinary pipe that would naturally be used in such work. I would also have liked, had the weather permitted, to have made several more surveys and taken levels, as I think I could have furnished you a more satisfactory report.

Yours respectfully,

J. J. CLOUD.

Regent Houghton moved that \$5,000—or so much thereof as may be needed—be appropriated for the construction of a reservoir, and that the committee be authorized to proceed with the work. [Carried, January 18, 1890.]

Services of Engineer.

We present the bill of W. G. Raymond for \$11 50, for surveying and making maps of property on Strawberry Creek. Mr. Raymond is an officer of the University on the salary roll, and it is the opinion of your committee that officers of the University should render any services specially required of them without charge therefor. (Report of the Finance Committee.)

Six dollars and fifty cents allowed for assistants. [January 18, 1890.]

18. Reports of the Special Committee and the Committee on Grounds AND BUILDINGS ON THE ERECTION OF A NEW CHEMICAL LABORATORY.

# Plans and Specifications.

Regent Hallidie, Chairman of the Committee on the Erection of a New Chemical Laboratory, presented the plans and specifications for the construction of the Chemical Laboratory, and moved that the whole matter be referred to the Committee on Grounds and Buildings, with instructions to advertise for bids for the construction of the whole building, according to the plans submitted, and to submit a report at the next meeting.

Carried, and the special committee was discharged. [June 25, 1889.]

#### Bids and Contract.

In conformity with authority from the Board of Regents, the Committee on Grounds and Buildings advertised for proposals for the construction of the new "Chemical Laboratory" at Berkeley, according to plans and specifications prepared by Clinton Day, architect, which had been previously submitted, considered, and adopted by this Board, calling for bids to be received at the office of Clinton Day, architect, 220 Sutter Street, on the twenty-eighth ult., at twelve o'clock noon of said day. At the appointed hour your committee were present, when eleven (11) bids were received, and numbered one to eleven, inclusive, and were opened in numerical order. One bid, that of J. Warren, was refused by the committee, being presented after the expiration of the noon hour. The bid of Robert Smilie, No. 2, was duly opened and considered; no bond or check accompanied the bid; at about twenty-five minutes past twelve o'clock, Mr. Smilie presented a bond, which instrument, upon examination by the committee, was pronounced insufficient and irregular in form, having but one bondsman, and not being filed within the legal time was excluded. Herewith find original list of all bidders, with amounts of each bid filed, showing a difference between the highest and lowest bids of \$26,543.

The lowest bid is that of Robert Smilie, being \$53,435, but for the reasons above stated, your committee declined to consider it.

First—Your committee would therefore recommend the acceptance of the next lowest bid, No. 11, that of R. Mitchell, for the sum of \$56,445, and that the contract be awarded to him.

Second—That the Secretary be instructed to indorse back all checks, and return all bonds to the respective bidders, except that of R. Mitchell,

the lowest regular formal bidder.

Third—That the Committee on Grounds and Buildings be herewith authorized to enter into contract with said R. Mitchell for the construction of said building, "The Chemical Laboratory of the University of California," for the sum of \$56,445.

#### List of Bids.

1.	Butler & McGowan (with check)	\$63,49	5 00	Ð
2.	Robert Smilie (with bond)	53.43	5 00	Ď
3.	E. W. Lewis & Co. (with bond)	79,97	3 00	Ď.
4.	J. H. Mackay (with bond)	63,70	Ó	Ó
5.	Robert Higgins (with bond)	70.60	00	j
6.	J. G. & J. N. Day (with bond)	62,37	3 00	)
7.	J. J. Conrad (with bond)	60.50	00	Ĺ
8.	M. Carthy (with bond)	63,920	) ÖÖ	)
9.	Richardson & Gale (with bond)	63,300	00	Ĺ
10.	R. W. Kittnan (with bond)	58,000	00	ì
11.	Robert Mitchell (with bond)	56,44	00	)
	•			

On motion, adopted, and contract awarded to Robert Mitchell. [September 10, 1889.]

#### Employment of a Superintendent.

The contractor is now laying the foundation of the new Chemical Laboratory building. We recommend that the Committee on Grounds and Buildings be authorized to employ a Superintendent to supervise the erection of this building. Cost, not to exceed \$150 per month. [Concurred in, November 12, 1889.]

Your Committee on Grounds and Buildings report that they have appointed J. P. Baudin Superintendent of Construction in the erection of the Chemical Laboratory building, in accordance with the resolution of the Board, adopted November 12, 1889. Said appointment to date from November 13, 1889. Salary, \$150 per month, as per order of the Board.

Action of the committee approved. [December 10, 1889.]

# Changes in Plans.

Regent Martin, Chairman of the Committee on Grounds and Buildings, reported that certain changes were necessary in the basement of the proposed building. He also submitted a drawing showing the changes needed; also an itemized statement by the architect, Clinton Day, and a bid from the contractor, Robert Mitchell, offering to do the required work for the sum of \$1,695.

Recommendation concurred in and the sum appropriated. [Decem-

ber 10, 1889.]

Regent Hallidie submitted the following statement of the architect as to the cost of the proposed changes in the Chemical Laboratory:

Balance of the amount already allowed by the Board, December 10, 1889  Strengthening the wall.  Two windows in the octagon  Enlarging flues  Lengthening eighteen windows		00 00 00
Total additional expense to be incurred\$	,825	<del></del>

Regent Bartlett moved that the proposed changes be approved by the Board, and that \$2,000, including \$1,645 of the appropriation of Dec. 10, 1889, be allowed to cover the cost of alterations to be made by order of the Committee on Grounds and Buildings. [Carried, February 11, 1890.]

The new Chemical Laboratory is rapidly approaching completion, and we have reason to hope that the building may be occupied by the opening of the new academic year. Your committee makes the following recommendation: That copper instead of tin be used in completing the gutters, valleys, and flashings of the roof. The extra cost will be \$1,290. [Concurred in, May 13, 1890.]

Professor Rising on the Equipment of the New Chemical Laboratory.

The construction of the new Chemical Laboratory, with increased and better accommodations, brings with it the question of equipment. It would be a proud announcement to make to the young men of the State that they can find as good laboratory facilities here as elsewhere. This announcement, I think, can be truthfully made when the building now in construction shall have been suitably furnished. We will then be able to add to our present accommodations laboratory facilities in the following subjects:

I. Elementary Chemistry. This opportunity for laboratory practice will be of great advantage to the teachers of the State, and they in turn will be able to successfully introduce and teach this subject in the lower schools. In this way we may in a few years be relieved from this work altogether. I think we can soon offer a summer course to teachers.

II. Organic Chemistry. Up to this time the study of this subject has been carried on under great disadvantages. With a special room set apart for this work, and with special apparatus and an assistant in charge, there will be a new interest in the subject. It includes the practical and important industries connected with fermentation, dyeing, sugar manufacture, etc.

III. Physiological Chemistry. This subject is of great importance, especially to those who are preparing to study medicine. It will include bacteriological studies, with special application to water analysis, toxi-

cology, food analysis, etc.

IV. Gas Analysis. The completion of the laboratory will make it possible, for the first time in the history of this coast, to make a complete analysis of burning gas. It will then be easy to analyze the many gases which are found on this coast. A series of air analyses would be of great interest.

Better facilities will be offered in the following subjects:

(a) Volumetric analysis.

Spectrum analysis.

Exercises with polarized light, including practice in sugar analy-

(d) Electrolytic analysis, including practice in the precipitation and

separation of metals and electroplating.

A Chemical Museum, on a somewhat larger scale, is now made possible. Here will be collected waste products and by-products of chemical manufacture, raw materials, samples illustrating various steps in the process of manufacture. The value of such a collection to students studying chemical manufactures is very great; many persons actually engaged in these manufactures will be interested and profited by such a collection. This museum or collection must be got together through the energy and skill of those in charge of the departments, as it cannot be bought—it must grow.

I have emphasized the importance of equipping the new laboratory with its new departments and museum in such a manner as to get the greatest possible good from them. This involves great responsibility; we need the experience of other institutions and the advice of the best educators. The suggestion has come to me, again and again, that it would be a great gain to the University if a representation of the Department of Chemistry could visit the best laboratories of this country and Europe and report their experience, advice, and suggestions. We need this assistance, both for the equipment and for the purchase of new apparatus needed in the new departments above described. We want to buy the best apparatus, of the best makers, and at the lowest prices. The estimated cost of new apparatus to furnish the new departments with

something to start the museum would be \$5,000.

I would like personally to undertake this work, and would be willing to visit the laboratories connected with the following institutions: Michigan University, Ohio State University (new chemical laboratory in construction, cost \$75,000), Cornell University (new laboratory there also, building cost \$80,000), Johns Hopkins, University of Pennsylvania, Princeton, Columbia, Yale, Harvard, University and Salsbury Laboratory (both in Worcester, Massachusetts, and both new); also the laboratories connected with the following foreign universities: Berlin, Leipsic, Bonn, Heidelburg, Strassburg, Aix-la-Chapelle, Munich, Zurich, Vienna; the important laboratories of France, including Paris, and of England, especially those connected with Oxford and Cambridge, and the Victoria University, and perhaps also Edinburgh and Dublin. I would be willing to bear one half of the expense if the University could bear the other half, which could be limited to, say, \$600. I would do all I could to collect suitable specimens for the museum. I would report to Berkeley frequently so that my suggestions could be acted upon. I would furnish lists of the best apparatus, prices and makers. When purchases are made advantage can be taken of this advice. I would use the time and opportunity to improve myself and to perform the service assigned me to the very best of my ability. Continued ill health compels me to ask for a leave of absence for the remainder of the term. My physician says that I have not recovered my usual health and vigor since my severe illness last fall, and that rest (with travel if possible) is necessary. I feel certain that I can best serve the University by carrying out the programme above outlined. I would return in time for the fall term.

Respectfully submitted.

W. B. RISING.

Berkeley, March 19, 1890.

Professor Rising Detailed to Examine Laboratories.

Regent Hoitt moved that Prof. W. B. Rising be detailed to visit the several chemical laboratories of America and Europe, with a view to the proper equipment of the new Chemical Laboratory at Berkeley, and that \$600 be appropriated to cover the expenses of his investigations. [Carried, April 8, 1890.]

# Furniture and Fittings.

We recommend that furniture and fittings for the new laboratories be made according to plans and specifications herewith submitted, cost not to exceed \$6,000. [Concurred in, May 13, 1890.]

May 27, 1890, the Board appropriated \$6,000 for the purchase of furniture and fittings for the new Chemical Laboratory. Your committee

advertised for proposals, to be opened June 18, 1890, at 12 m. Only one bid was received. R. M. McKillican offered to do the work according to plans and specifications for the sum of \$7,921. The bid was accompanied by a certified check covering 10 per cent of the bid, as required by law.

On motion, ordered that the bid be rejected, and that the committee

advertise for bids. [June 24, 1890.]

# Purchase of Apparatus, etc.

Professor Rising submits requisitions for glassware, apparatus, and chemicals, amounting to \$1,800. It is necessary to order these goods in advance fifteen or eighteen months.

We recommend that the requisitions be approved, and purchase ordered of said materials, payable out of the budget apportionment for the year in which they shall be received. [Concurred in, January 18,

890.1

We recommend that a sum, not to exceed \$1,000, be appropriated for the immediate purchase, in Germany, of apparatus, glassware, and fittings, for use in the new Chemical Laboratory; and also, that \$400 be appropriated for the purchase of apparatus and fittings in New York. [Concurred in, May 13, 1890.]

#### 19. REMOVAL OF THE DEPARTMENT OF PHYSICS TO SOUTH HALL.

President Davis reported that the following section of the report of the Finance Committee had been referred to him:

"It will be necessary to place the Department of Physics in South Hall as soon as the Chemical Department can be removed to the Chemical Laboratory, now in process of construction, and it will be desirable to obtain information as to the best methods of fitting up the quarters to be used by the Department in South Hall. Associate Professor F. Slate offers to bear half the expense of an investigation of the improved methods of fitting up Physical Laboratories, now in use in eastern institutions, and to give his entire summer vacation to that work. The cost of such an investigation will be \$500. We recommend that \$250 be appropriated to enable Mr. Slate to make the needed investigations during the coming summer vacation."

He begged leave to report back the recommendation of the Finance Committee, and recommended that it be concurred in. [Concurred in,

March 11, 1890.]

#### 20. THE WM. ASHBURNER MEMORIAL CLOCK.

Regent Hallidie presented the bill of Robert McKillican for placing the Ashburner Clock in the tower of the Bacon Art and Library building, amounting to \$566 84, and stated that the bill was \$66 84 in excess of the appropriation. He recommended that the bill be paid. [Concurred in, March 11, 1890.]

Regent Houghton presented the report of the special committee appointed to place the Wm. Ashburner Memorial Clock, as follows:

Your special committee, appointed to place the Wm. Ashburner

Memorial Clock, begs leave to report that the clock is now in place. Mrs. Ashburner met the committee Saturday, March 15, 1890, in the library reading-room, and formally turned over the clock to the Regents of the University. Mrs. Ashburner also placed in the hands of your committee the following papers, which were placed on file in the Secretary's office.

1. The receipt and guarantee of the Seth Thomas Clock Company,

as follows:

To the Board of Regents of the University of California:

GENTLEMEN: We hereby certify that all charges due to us for the furnishing and erecting of the Memorial Clock at the University of California have been paid, and we further acknowledge a guarantee to Mrs. Ashburner of the successful working of the clock (accidents excepted) for five years from this date.

SETH THOMAS CLOCK COMPANY, HENRY MOLINEAUX, Manager.

Dated March 15, 1890.

2. A policy of insurance for \$2,000, running three years, covering the clock and bell, including all appliances and fixtures.

The following inscription is cast in the bell: "Memorial of William

Ashburner."

The weight of the movement is one thousand pounds; of the pendulum ball, one hundred and thirty-five pounds; of clock weights (time side), seventy-five pounds; of strike, seven hundred pounds; of bell, one thousand five hundred and sixty-eight pounds; of the hammer, thirty-five pounds. The size of the dial is five feet four inches; the drop for weights is thirty-five feet in length.

Your committee begs leave to submit the following resolutions:

Resolved, That the Board of Regents gratefully accepts the valued gift of Mrs. Ashburner

gift of Mrs. Ashburner.

Resolved, That the Board of Regents hereby expresses great pleasure in receiving a gift that will perpetuate the remembrance of the distinguished services of the late Regent Wm. Ashburner, on behalf of the University.

Report and resolutions adopted.

Ordered, that a copy of the resolutions be forwarded to Mrs. Ashburner. [April 8, 1890.]

#### 21. Inventory of Contents of Buildings.

An inventory was made by the Secretary and Professors in 1882. Your committee requests instructions from the Board as to whether a new one shall be made.

Regent Houghton moved that an inventory be taken of the contents of the buildings at Berkeley. [Carried, January 18, 1890.]

#### 22. Conveyance to H. D. Cogswell.

Regent Marye presented the following communication from the Trustees of the Cogswell Polytechnical College:

San Francisco, September 9, 1889.

To the honorable the Board of Regents of the University of California:

DEAR SIRS: As a member of the Board of Trustees of the Cogswell Polytechnical College I received a deed, made by your honorable Board to Dr. H. D. Cogswell, of the property located on the corner of Front and Clark Streets, in this city, it being the same piece of property that Dr. Cogswell had deeded to the Board of Regents under date of May 19, 1879, and redeeded to him by your honorable Board, as per decision of Judge Hunt in case of Cogswell vs. The Regents, Decree No. 15,509, as the same is shown on pages 95–6–7 of the annual report of the Secretary of the Board of Regents for the year ending June 30, 1887.

The Trustees of the Cogswell Polytechnical College were authorized to sell this property to provide funds to furnish the school building erected under the terms of the trust. We effected the sale of the property on condition that the buyer could secure a loan of \$20,000. The abstract of this property and the unrecorded deed was placed in the

hands of the attorneys for the Hibernia Bank.

During the time that such attorneys had this matter under consideration, this unrecorded deed was mislaid or lost, and after diligent search

cannot be and has not been found.

I hand you with this my affidavit to this effect, a resolution authorizing your President and Secretary to issue a new deed and a deed of the property in question, all of which have been prepared under the supervision of counsel of the Board, Hon. J. B. Mhoon.

The Cogswell Trustees are sadly in need of money to be derived from this sale, inasmuch as they are now paying interest on the amount to the bank. I therefore have the honor to request that your honorable body authorize your President and Secretary to execute and deliver the deed herewith at your earliest convenience.

I am, gentlemen, your obedient servant,

C. B. STONE, Trustee and Treasurer of Cogswell Polytechnical College.

STATE OF CALIFORNIA, City and County of San Francisco.

C. B. Stone, being first duly sworn, deposes and says that he is one of the Trustees of the Cogswell Polytechnical College; that a certain deed dated the fourteenth day of July, 1887, executed by the Regents of the University of California, a corporation, to Henry D. Cogswell, conveying to said Henry D. Cogswell all that certain lot, piece, or parcel of land situate, lying, and being in the City and County of San Francisco, State of California, and particularly described as follows, to-wit: Commencing at a point on the easterly line of Front Street, distant sixty (60) feet northerly from the northeast corner of the intersection of Front and Jackson Streets; thence northerly along said easterly line of Front Street sixty (60) feet to Clark Street; thence at right angles easterly and along the southerly line of Clark Street eighty-five (85) feet to and including the brick wall, and the land on which stands the wall, which now constitutes the rear or easterly wall of the building erected on the premises hereby conveyed; thence at right angles westerly and parallel with Jackson Street eighty-five (85) feet to the easterly line of Front

Street and point of commencement, was delivered to him as such Trustee of the Cogswell Polytechnical College; that said deed was never placed of record in the office of the County Recorder of the City and County of San Francisco, and since the delivery thereof the same has been lost. And affiant further says that he has made and caused to be made diligent search for said deed, but the same has not been and cannot be found.

C. B. STONE.

Subscribed and sworn to before me this seventh day of September, 1889.

SEAL.

JAMES L. KING, Notary Public.

# Resolution of Conveyance by the Board.

Whereas, In accordance with the decree of the Superior Court of and for the City and County of San Francisco, in favor of plaintiff and against defendants in the cause, in said Court, and Department No. 5 thereof, entitled, Henry D. Cogswell, plaintiff, vs. The Regents of the University of California, a corporation, by virtue of a resolution adopted therefor, made, executed, and delivered to the said Henry D. Cogswell a good and sufficient deed of conveyance of the real property in the said decree described, which said deed was dated the fourteenth day of July, A. D. 1887, and was duly acknowledged, so that it might be recorded in the office of the County Recorder, of the said City and County of San Francisco; and, whereas, the said deed was never placed of record in the office of the said County Recorder, and since its delivery has been lost, and after diligent search cannot be found; therefore, be it

Resolved, That the President and Secretary of the Board of Regents, in the name and under the corporate seal of the "Regents of the University of California," execute and deliver to H. D. Cogswell a conveyance covering the property heretofore, to wit: May 19, 1879, conveyed by said Cogswell to the Regents of the University of California, in the place of said lost deed, as the same is described in the said deed from said Cogswell to said Regents, in the form to be approved by the attorney of the Board of Regents, substantially as follows, to wit:

This indenture, made the — day of September, in the year of our Lord one thousand eight hundred and eighty-nine, between the Regents of the University of California, a corporation, the party of the first part, and Henry D. Cogswell, the party of the second part, witnesseth: That whereas, a certain deed of indenture, bearing date the fourteenth day of July, A. D. 1887, from the party of the first part to the party of the second part, of the premises hereinafter described, has been lost, and after diligent search cannot be found; now, therefore, the said party of the first part, for and in consideration of the sum of one dollar, coin of the United States of America, to it in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, and pursuant to a decree of the Superior Court of San Francisco, Department Five, entered in the case of H. D. Cogswell vs. The Regents of the University of California, on the eighth day of February, 1887, has remised, released, forever quitclaimed, and by these presents does remise, release, and forever quitclaim unto the said party of the second part, and to his heirs

and assigns, all that certain lot, piece, or parcel of land situate, lying, and being in the City and County of San Francisco, State of California, and particularly described as follows, to wit: Commencing at a point on the easterly line of Front Street, distant sixty (60) feet northerly from the northeast corner of the intersection of Front and Jackson Streets; thence northerly along said easterly line of Front Street sixty (60) feet to Clark Street; thence at right angles easterly and along the southerly line of Clark Street eighty-five (85) feet to and including the brick wall, and the land on which stands the wall, which now constitutes the rear or easterly wall of the building erected on the premises hereby conveyed; thence at right angles westerly and parallel with Jackson Street eightyfive (85) feet to the easterly line of Front Street and point of commencing; together with all and singular the tenements, hereditaments, and appurtenances thereunto belonging or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues, and profits thereof, and also all the estate, right, title, interest, property, possession, claim, and demand whatsoever, as well in law as in equity, of the said party of the first part, of, in, or to the said premises, and every part and parcel thereof, with the appurtenances. To have and to hold, all and singular, the said premises, together with the appurtenances, unto the said party of the second part, and to his heirs and assigns forever.

In witness whereof, the said party of the first part hath, on the date first above written, caused its corporate name to be hereunto subscribed by its President, and its corporate seal to be hereon affixed by its Secretary, in accordance with a resolution regularly adopted, this —— day of September, 1889.

#### THE REGENTS OF THE UNIVERSITY OF CALIFORNIA.

On motion, the resolution was adopted, and a deed ordered as requested. [September 10, 1889.]

#### 23. Resignations.

Regent Phelps presented the resignation of Charles B. Hill as Secretary, Librarian, and Assistant Astronomer of the Lick Observatory, to take effect September 15, 1889. [Accepted, September 10, 1889:]

#### Resignation of President Davis.

Your committee on matters relating to the Presidency of the University herewith submits the letter of President Davis resigning his office, and in full appreciation of the sentiments expressed in that letter recommends the acceptance of Mr. Davis' resignation, to take effect from the fifteenth of September, 1890:

BERKELEY, April 4, 1890.

# To the Board of Regents:

GENTLEMEN: I beg to place in your hands my resignation of the office of President. When I accepted the position I agreed to make my residence in Berkeley. Circumstances beyond my control have made it impossible for me to carry out my promise and I tender my resignation to take effect at as early a day as will be convenient to you.

In all other respects except moving to Berkeley, I believe I have performed the trust you laid upon me, with fidelity. The work has been

congenial to me and I have given it all my time and thought, to the entire exclusion of my private affairs, which have been intrusted to the sole management of other persons. I hope and believe that the University has prospered under my administration, and now, though my official connection with it is dissolved, it will always have my warmest wishes for its continued welfare.

I remain, gentlemen, with great respect, yours very truly,

HORACE DAVIS.

Recommendation of committee concurred in. [May 13, 1890.]

#### 24. RELATING TO LEAVE OF ABSENCE.

President Davis reported that he had given a leave of absence to Professor Hilgard on account of the death of his son. [Approved, November 12, 1889.]

Regent Rodgers presented the following report:

Your special committee, to which was referred the application of Prof. Bernard Moses, dated January 7, 1890, for leave of absence, recommend that under all the circumstances, the application for leave of absence, with pay, for the year beginning September 18, 1890, be granted, with the understanding, however, that the action in this matter shall not hereafter be deemed a precedent. [Approved, March 11, 1890.]

Your committee recommends that Associate Professor C. B. Bradley be granted a leave of absence for one year, without pay, namely, from September 15, 1890, to September 15, 1891. [Report of Committee on

Internal Administration; concurred in, April 8, 1890.]

Some of the officers have already finished their work for the year and desire to leave Berkeley at once, some to travel and some to study. Your committee recommends that such as be recommended by the President be allowed to leave without loss of salary. [Report of the Finance Committee; concurred in, June 10, 1890.]

#### 25. Appointment of Professors.

President Davis submitted the following:

Resolved, That Professor Charles M. Gayley be appointed Professor of the English Language and Literature in place of Albert S. Cook, resigned, at a salary of \$3,000 per annum, said appointment to begin September 16, 1889.

On motion, adopted. [July 2, 1889.]

Regent Delmas moved that S. B. Christy, Albin Putzker, and A. W. Jackson be restored to the Professorships held by them when they were made Associate Professors, without change of salary. [Carried, Janu-

ary 18, 1890.]

Resolved, That we respectfully request the Secretary of War to detail First Lieutenant Benjamin H. Randolph, of the Third Artillery, U. S. Army, to succeed Lieutenant Harrison as Professor of Military Science and Tactics in the University of California. [Report of Special Committee on Selection of a Professor of Military Science and Tactics; adopted, May 13, 1890.]

Regent Marye offered the following:

Resolved, That the duties of Professor of Military Science and Tactics in the University have been performed by First Lieutenant George F. E. Harrison, Second Artillery, with great fidelity and efficiency, and in a manner highly satisfactory to the Faculties and the Board of Regents. [Adopted, May 13, 1890.]

# Titles of Professors in the Dental Department.

President Davis, to whom was referred the changes in the titles of the Professors of the Dental College, with power to approve, reported that he had approved the said changes, as recommended in the following:

San Francisco, January 13, 1890.

To the honorable Board of Regents of the University of California:

GENTLEMEN: I beg respectfully to present the following abstracts

from the minutes of the Dental Faculty, viz.:

December 13, 1881.—The amendments to the by-laws, introduced by the Secretary, November 7, 1881, "That the words, 'Dental Art and Mechanism,' of Section 1, be changed to 'Mechanical Dentistry,' was adopted November 21, 1889. Professor Dunbar moved that the title of Professor Goddard's chair be changed to 'Orthodontia and Dental Metallurgy,' and that the subject of 'Mechanical Dentistry' be left with a Lecturer, to be appointed for that purpose. Carried." The same are presented in affirmation of Professor Goddard in his petition of this date.

Very respectfully,

L. L. DUNBAR, Dean.

February 11, 1890.

#### 26. Appointment of Associate Professor.

We recommend that Instructor Thomas R. Bacon be made Assistant Professor of European History, with maximum salary of said position. The recommendation of the committee was amended to read as follows: "That Thomas R. Bacon be appointed Associate Professor of European History, at a salary of two hundred (\$200) dollars per month, said appointment to date from his resignation of his pastorate of the First Congregational Church of Berkeley, and his acceptance of the position herein offered." [Report of the Finance Committee; adopted, December 10, 1890.]

#### 27. APPOINTMENT OF ASSISTANT PROFESSORS.

Regent Rodgers stated that E. L. Greene had been appointed Assistant Professor of Botany; that said appointment was to continue for a definite period of time; that the said period had not expired when he was made Lecturer on Botany; that such appointment as Lecturer was a reduction in rank, and in violation of a contract of the Board with Mr. Greene. He therefore moved that his appointment as Lecturer be

corrected, and that he be made Assistant Professor of Botany, with his above. [Report of Committee on Internal Administration; concurred present salary. [Carried, January 18, 1890.]

President Davis submitted the following:

Resolved, That E. L. Greene be appointed Assistant Professor of Botany, at the rate of \$1,500 per annum during his term of service.

[Adopted, May 13, 1890.]

Resolved, That Alexander F. Lange be appointed Assistant Professor of the English Language and Literature, for a period beginning September 15, 1890, and ending June 30, 1891, with a salary of — per month, or \$1,800 for the term of appointment. [Report of Committee] on Internal Administration; adopted, May 13, 1890.]

#### 28. Appointment of Director of Physical Culture.

Resolved, That F. H. Payne, M.D., be appointed Director of Physical Culture, for one year from July 1, 1890, to June 30, 1891, with salary at the rate of \$1,000 per annum. [Report of Committee on Internal Administration; adopted, May 27, 1890.]

#### 29. Appointment of Lecturers. •

Resolved, That Adolph P. Miller be and he is hereby appointed Lecturer on Political Economy, for a period beginning September 15, 1890, and ending June 30, 1891, with a salary of —— per month, or \$1,800 for the term of appointment. [Report of Committee on Internal Administration; adopted, May 13, 1890.]

Resolved, That E. J. Wickson be appointed Lecturer on Practical Agriculture, for one year from July 1, 1890, to June 30, 1891, with salary at the rate of \$2,400 per annum. [Report of Committee on Inter-

nal Administration; adopted, May 27, 1890.]

#### 30. REORGANIZATION OF THE STAFF OF THE DEPARTMENT OF CHEMISTRY.

With reference to the Chemical Department, we think that in view of the removal into the new Chemical Laboratory, the organization of the department ought to be somewhat changed, and we therefore recommend that it be organized as follows:

One Professor at a salary of	3,000 a year.
One Assistant Professor at a salary of	1,800 a year.
One Instructor at a salary of	1,000 a year.
One First Assistant at a salary of	720 a year.
One Second Assistant at a salary of	500 a year.

And we recommend that those positions be filled as follows: That Professor Rising be continued Professor as before; that Edmund O'Neill be made Assistant Professor; that J. H. Gray, Jr., be made Instructor; that A. Sommer be made First Assistant, and that V. K. Chestnut be made Second Assistant.

And we recommend that all the foregoing persons be required to give their whole time to the service of the University, and if Mr. Sommer is unable to comply with this requirement and is therefore unwilling to accept the position of First Assistant, we suggest that the salary of that position be fixed at \$600 per annum, instead of \$720 as recommended

in, June 24, 1890.]

#### 31. Appointment of Instructors.

President Davis nominated George M. Richardson as Instructor in Latin, to act from September 19, 1889, to July 1, 1890.

On motion, adopted. [July 2, 1889.]

President Davis submitted the following resolution:

Resolved, That Dr. G. M. Richardson's term of employment as Instructor in Latin include the period from September twelfth to September nineteenth, inclusive, and that he be paid therefor. [Adopted, November 12, 1890.]

Regent Marye moved that W. W. Deamer be elected Instructor in

Regent Rodgers moved that G. M. Richardson be elected Instructor in Latin.

On roll call, Mr. Richardson was declared elected. [May 27, 1890.] Resolved, That Dr. Frank G. Hubbard be appointed an additional Instructor in English for one year, from September 15, 1889, to September 14, 1890, at a salary of \$1,500 per annum. [Report of special committee to consider the necessity of providing further instruction in English and the Modern Languages; adopted, September 10, 1889.]

President Davis submitted the following:

Resolved, That during the illness of Professor Bunnell, President Davis be authorized to employ Prof. R. F. Pennell, at a salary of one hundred and fifty (\$150) dollars per month to take charge of the Greek Department, said appointment to begin October 7, 1889. [Adopted, November 12, 1889.7

President Davis submitted the following:

Resolved, That during the illness of Associate Professor Clarke, President Davis be authorized to employ Dr. Carlo Veneziani as Instructor in the Mathematical Department, at a salary of one hundred and twenty-five (\$125) dollars per month, from Tuesday, October 1, 1889. [Adopted, November 12, 1889.]

President Davis submitted the following:

Resolved, That the following appoinments be made on the teaching

staff at Berkeley:

The following Instructors for one year, from July 1, 1890 to June 30, 1891: Hermann Kower, in Instrumental Drawing, at the rate of \$1,700 per annum; Edmund O'Neill, in Chemistry, at the rate of \$1,700 per annum; W. D. Armes, in English, at the rate of \$1,500 per annum; J. H. Senger, in German and Greek, at the rate of \$--- per annum; Franklin Booth, in Mining and Metallurgy, at the rate of \$1,200 per annum; also, Frank G. Hubbard, in English, from September 14, 1890, to June 30, 1891, for the sum of \$1,500. [Appointments made, May 13, 1890.]

# Department of Mathematics.

When Professor Clarke was made Assistant Professor in 1885, there were two hundred and fifty students in the College. The Register just issued shows four hundred and one. Thus, the number of students has increased 80 per cent without any corresponding increase in the teaching force in mathematics. The time has now come when such an increase is necessary, and it can be accomplished without material increase of expense, or weakening of the efficiency of the instruction, by abolishing the vacant Associate Professorship and substituting for it two Instructorships. The salary of the Associate Professor has been \$2,400; the compensation of two Instructors, at \$1,500 each, will be \$3,000; an annual increase of \$600. This change is recommended by President Davis and Professor Stringham, and we hand in with this report a detailed statement by Professor Stringham, of the work of the department for the past ten years, and of the proposed work for the coming year, showing the number of courses of study, the hours required for each, and the number of students engaged in each. It will be seen from this statement that sixty hours of class-room work is required in the Mathematical Department in the coming year, which will require four teachers.

We therefore recommend the following resolution: "That the Second Associate Professorship of Mathematics be hereby abolished, and two Instructorships be established in its place, each at a salary of \$1,500 per annum." [Report of Committee on Internal Administration; report

and resolution adopted, May 27, 1890.]

President Davis submitted the following:

Resolved, That instead of two Instructors in Mathematics at \$1,500 per annum each, the Board will allow the \$3,000 devoted to their salaries to be divided into two unequal parts, if, in the opinion of the President and Professor Stringham, such course should be for the benefit of the University. [Adopted, June 10, 1890.]

That Mellen W. Haskell be appointed Assistant Professor of Mathematics at a salary of \$1,800 a year, for the term of one year, commencing July 1, 1890, with the understanding that if his services are satisfactory, he will be reëmployed for another year at the same salary. [Report of Committee on Internal Administration; concurred in, June 24, 1890.]

That Armin O. Leuschner be appointed Instructor in Mathematics at a salary of \$1,200 a year, for the term of one year, commencing July 1, 1890. [Report of Committee on Internal Administration; concurred in, June 24, 1890.]

#### 32. Recorder's Office.

Finlay Cook to be Recorder, appointment to date from July 1, 1889, and to continue until July 1, 1890. [Report of special committee to fill vacancies; concurred in, July 2, 1889.]

James Sutton to be Recorder's Clerk, to date from July 1, 1889, to July 1, 1890. [Report of special committee to fill vacancies; concurred in, July 2, 1889.]

Resolved, That Finlay Cook be appointed Recorder, from July 1, 1890,

to June 30, 1891, at a salary of \$900 for the year.

Resolved, That James Sutton be appointed Recorder's Clerk, from July 1, 1890, to June 30, 1891, at a salary of \$600 for the year. [Report of Committee on Internal Administration; resolutions adopted, June 24, 1890.]

#### 33. Assistants.

John H. Gray, Jr., to be Department Assistant in Chemistry, vice Ritter, resigned, to date from September 19, 1889, to July 1, 1890. [Report of special committee; concurred in, July 2, 1890.]

Victor K. Chestnut and Samuel S. Peck, to be Student Assistants in the Chemical Laboratory, to date from September 19, 1889, and to continue until July 1, 1890. [Report of special committee; concurred in, July 2, 1889.]

Meyer E. Jaffa, to be Assistant in Agricultural Laboratory, instead of First Assistant in Viticultural Laboratory. [Report of special com-

mittee; concurred in, July 2, 1889.]

That Franklin Booth be appointed Department Assistant in Mining

and Metallurgy, to date from July 1, 1889, to July 1, 1890.

On motion, the recommendation was amended so as to read: "That Franklin Booth be appointed Instructor in Mining and Metallurgy, to date from July 1, 1889, to July 1, 1890;" and then the recommendation, as amended, was concurred in. [Report of special committee, July 2, 1889.]

President Davis recommended that John C. Merriam be appointed Student Assistant in the Department of Mineralogy, to date from September 19, 1889, and to continue until July 1, 1890. [Concurred in,

July 2, 1889.]

That A. F. Mack be appointed Department Assistant in the College of Mechanics, to date from September 19, 1889, and to continue until

July 1, 1890. [Concurred in, July 2, 1889.]

In the matter of the petition of W. J. Raymond and E. R. Drew, for a change in date of their appointment, namely, from September 19, 1889, to July 1, 1889, referred to this committee at the meeting of the Board held September 10, 1889, we recommend that the appointment of said petitioners be made, to date from July 1, 1889, and to continue until July 1, 1890, and that each be paid \$75 per month for the period of the appointment. [Report of the Finance Committee; concurred in, November 12, 1889.]

#### Report of Committee on Internal Administration.

Resolved, That the following appointments be made:

E. R. Drew, Assistant in Physics, for one year, from July 1, 1890, to June 30, 1891, at the rate of \$1,200 per annum.

W. J. Raymond, Assistant in Physics, for one year, from July 1, 1890,

to June 30, 1891, at the rate of \$1,200 per annum.

E. Rixford, Assistant in Mechanics, from September 18, 1890, to June 30, 1891, at the rate of \$50 per month.

J. D. Layman, Assistant Librarian, for one year, from July 1, 1890, to

June 30, 1891, at the rate of \$1,200 per annum.

Walter Magee, Assistant in Physical Culture, for one year, from July 1, 1890, to June 30, 1891, at the rate of \$1,500 per annum.

M. E. Jaffa, Assistant in Agricultural Laboratory, for one year, from

July 1, 1890, to June 30, 1891, at the rate of \$1,500 per annum.

Louis Paparelli, First Assistant in Viticultural Laboratory, for one year, from July 1, 1890, to June 30, 1891, at the rate of \$1,500 per annum.

George E. Colby, Second Assistant in Viticultural Laboratory, for one year, from July 1, 1890, to June 30, 1891, at the rate of \$1,200 per annum.

K. McLennan, Gardener to the College of Agriculture, for one year, from July 1, 1890, to June 30, 1891, at the rate of \$840 per annum.

W. G. Klee, Inspector of Stations, for one year, from July 1, 1890, to June 30, 1891, at the rate of \$1,500 per annum.

Joseph W. Flynn, Printer, for one year, from July 1, 1890, to June 30

1891, at the rate of \$720 per annum.

[Adopted, May 27, 1890.]

Resolved, That John C. Merriam be appointed Student Assistant in Minerology, from September 15, 1890, to June 30, 1891, at a salary of \$20 per month. [Report of the Committee on Internal Administration; adopted, June 24, 1890.]

President Davis submitted the following:

Resolved, That J. A. Sladky be appointed Superintendent of Machine Shops, from July 1, 1890, to June 30, 1891, with salary at the rate of \$1,800 per annum. [Adopted, May 13, 1890.]

# Inspector.

That W. G. Klee be appointed Inspector of Stations, from July 1, 1889, to July 1, 1890. [Report of special committee appointed to fill vacancies; concurred in, July 2, 1889.]

# Assistant in Department of Civil Engineering.

We recommend that the petition of Professor Soulé be granted, and that the Department of Civil Engineering be accordingly allowed a student assistant for eight months of the academic year, with pay of \$20 per month when employed. [Report of Committee on Internal Administration; concurred in, May 27, 1890.]

#### 34. University Publications.

We recommend that one thousand five hundred copies of Professor Gayley's Bibliography on Æsthetics be printed by the State Printer. [Report of Committee on Library and Museum; concurred in, November 12, 1889.]

#### 35. Entrance Examinations.

President Davis offered the following:

Resolved, That the Academic Council be authorized to hold entrance examinations at Visalia regularly each year hereafter. [Adopted, January 18, 1890.]

#### 36. RESIDENCE AT BERKELEY.

With reference to the residence at Berkeley of the President, and of persons giving instruction in the University, your committee is of the opinion that the President and all Professors, Associate Professors, and Assistant Professors should reside at the seat of the University at Berkeley, and your committee would recommend the adoption by the Board of the following regulation, to apply to all persons hereafter appointed to any of those offices, namely:

The following officers shall reside at the seat of the University at Berkeley: The President, Professors, Associate Professors, Assistant Professors giving instruction exclusively at Berkeley, and the Secretary of the Board of Regents.

The restrictions upon the residence of the officers above mentioned may be removed by the Board of Regents in individual cases for cause. Your committee is of the opinion that this regulation should apply to the present incumbent of the office of President, because he was appointed with the distinct understanding that he was to reside at Berkeley; but he has adduced reasons which to your committee seem sufficient, why he has not and does not now reside at Berkeley. [Report of Committee on Internal Administration; adopted, April 8, 1890.]

#### 37. Degrees Conferred.

# College of Pharmacy.

President Davis submitted the following report from the Dean of the College of Pharmacy:

#### President Horace Davis:

DEAR SIR: In accordance with a vote of the Board of Trustees of the California College of Pharmacy, passed October 4, 1889, the following named students, who have satisfactorily completed the required course of study, and passed the necessary examinations, are hereby recommended to the honorable Board of Regents for the degree of "Graduate in Pharmacy."

Henry M. Beck	Ninth and Mission Streets, San Francisco.
	951 Broadway, Oakland.
	124 Ellis Street, San Francisco.
	Eureka, California.
	261 Twelfth Street, Oakland.
	500 Guerrero Street, San Francisco.
	401 Sixth Street, San Francisco.
	Twelfth and Broadway, Oakland.
	34 First Street, San Francisco.
	124 Ellis Street, San Francisco.
Ambrose E. O'Neill	610 Seventh Street, San Francisco.
Joseph Van Worthen	603 Montgomery Street, San Francisco.
	119 Morris Avenue, San Francisco.
	San José, California.
Lawrence E. Williams	1101 Broadway, Oakland.
Julien E. Waller	1406 Van Ness Avenue, San Francisco.
Adolph W. Borchers	Sixth and Harrison Streets, San Francisco.

The degree of Graduate in Pharmacy was conferred upon the foregoing candidates in accordance with the recommendations of the Faculty of the College of Pharmacy. [November 12, 1889.]

# College of Dentistry.

#### President Horace Davis:

DEAR SIR: In accordance with a vote of the Faculty of the College of Dentistry, passed November 6, 1889, the following named students, who have satisfactorily completed the required course of study, and passed the necessary examinations, are hereby recommended to the honorable Board of Regents for the degree of Doctor of Dental Surgery:

Milton Ross Gambitz	San Francisco, Cal.
Benjamin Mitchell Gunzburger	San Francisco, Cal.
William Alexander Meyer	San Francisco, Cal.
Warren Guice Mobley	North Bloomfield, Cal.
Dorr Nash	

Joseph Pfister	Pinole.	Cal
Andrew John Powell	Haywards.	Cal
Edward William Pratt	_San Francisco,	Cal
Frederick Courtland Sutliff	Sacramento,	Cal
Arthur Henry Wallace	Stockton,	Cal

# L. L. DUNBAR,

Dean.

Degrees conferred as recommended. [November 12, 1889.]

#### College of Medicine.

#### President Horace Davis:

DEAR SIR: In accordance with a vote of the Faculty of the Medical Department, passed November 7, 1889, the following named students, who have satisfactorily completed the required course of study, and passed the necessary examinations, are hereby recommended to the honorable Board of Regents for the degree of Doctor of Medicine:

Francesca I. Foreman         San Francisco.           Christopher C. Gleaves         San Francisco.           William H. Haskin         San Francisco.           Edward R. Holmes         San Francisco.           Ottiwell W. Jones         San Francisco.           Masayasu Kawakami         San Francisco.           Frances R. Marx         San Francisco.           Squier R. Mather         San Francisco.           Oscar J. Mayer         San Francisco.           Joseph A. Oliver         San Francisco.           Joseph A. Oliver         San Francisco.
William H. Haskin         San Francisco.           Edward R. Holmes         San Francisco.           Ottiwell W. Jones         San Francisco.           Masayasu Kawakami         San Francisco.           Frances R. Marx         San Francisco.           Squier R. Mather         San Francisco.           Oscar J. Mayer         San Francisco.           Aloysuis P. O'Brien         San Francisco.
William H. Haskin         San Francisco.           Edward R. Holmes         San Francisco.           Ottiwell W. Jones         San Francisco.           Masayasu Kawakami         San Francisco.           Frances R. Marx         San Francisco.           Squier R. Mather         San Francisco.           Oscar J. Mayer         San Francisco.           Aloysuis P. O'Brien         San Francisco.
Edward R. Holmes         San Francisco.           Ottiwell W. Jones         San Francisco.           Masayasu Kawakami         San Francisco.           Frances R. Marx         San Francisco.           Squier R. Mather         San Francisco.           Oscar J. Mayer         San Francisco.           Aloysuis P. O'Brien         San Francisco.
Ottiwell W. Jones San Francisco.  Masayasu Kawakami San Francisco.  Frances R. Marx San Francisco.  Squier R. Mather San Francisco.  Oscar J. Mayer San Francisco.  Aloysuis P. O'Brien San Francisco.
Frances R. Marx San Francisco. Squier R. Mather San Francisco. Oscar J. Mayer San Francisco. Aloysuis P. O'Brien San Francisco.
Frances R. Marx San Francisco. Squier R. Mather San Francisco. Oscar J. Mayer San Francisco. Aloysuis P. O'Brien San Francisco.
Squier R. Mather.San Francisco.Oscar J. Mayer.San Francisco.Aloysuis P. O'Brien.San Francisco.
Oscar J. MayerSan Francisco. Aloysuis P. O'BrienSan Francisco.
Aloysuis P. Ö'Brien San Francisco.
Samuel P. TuggleSan Francisco.
Mark S. Wade San Francisco.
Gustave C. Zeyn

# R. A. McLEAN,

Dean.

Degrees conferred as recommended. [November 12, 1889.]

The Hastings College of the Law.

President Davis submitted the following:

UNIVERSITY OF CALIFORNIA, HASTINGS COLLEGE OF THE LAW.

#### President Davis:

DEAR SIR: In accordance with a vote of the Board of Directors of the Hastings College of the Law, passed June 6, 1890, the following named students, who have satisfactorily completed the required course of study, and passed the necessary examinations, are hereby recommended to the honorable Board of Regents for the degree of Bachelor of Laws:

1. Walter John Bartnett, A.B. 2. William Henry Carlin	Wheatland.
3. Joseph Louis Dumontier, A.B.	San Francisco.
4. Warren Cranston Gregory, A.B.	Pacheco.
5. Samuel Haskins, A.M.	San Francisco.
6. Thomas Eastman Haven, A.B.	
7. Arthur Inkersley, A.B.	San Francisco.
8. James Clarence McKinstry, A.B.	San Francisco.
9. Jacob Samuels, A.B.	San Francisco.
10. William Wilson Sanderson, Ph.B.	San Francisco.

11.	Arthur Kenningford Sheats	San Francisco.
12.	Harry Heinzelman Timken	San Diego.
13.	Sidney McMechen Van Wyck, Jr.	San Francisco.

[Attest:]

EDWARD J. RYAN, Registrar.

On motion, the degree of Bachelor of Laws was conferred on each of the candidates named in the foregoing list. [June 10, 1890.]

### Colleges at Berkeley.

Regent Bartlett, on behalf of the special committee to which was referred the following applications for degrees, reported in favor of granting the degrees, as recommended by the Faculties at Berkeley:

George Russell Lukens	College of Letters—Degree of Ph.B.	Oakland.	Cal.
3.00-g- 200	College of Mining—Degree of B.S.	,	
John Cushing Dornin		Fulton,	Cal

[Conferred, January 18, 1890.]

President Davis presented a recommendation of the Faculty, as follows:

#### President Horace Davis:

DEAR SIR: In accordance with a vote of the Faculty of the College of Chemistry, passed February 19, 1890, the following student, who has satisfactorily completed the required course of study, and passed the necessary examinations, is hereby recommended to the honorable Board of Regents for the degree of Bachelor of Science:

Frederick William Abourn Wright Berkeley.

#### IRVING STRINGHAM,

Dean.

On motion, the degree of Bachelor of Science was conferred as recommended. [March 11, 1890.]

President Davis submitted the reports of the several Faculties recommending that degrees be conferred on the following graduates of the University at Berkeley, as follows:

1. By the Faculty of the College of Letters, recommending that the degree of Bachelor of Arts be conferred upon the following candidates:

Richard Frank Dean	
Andrew Mitchell Henderson	Sacramento.
Ruth Wales Hobson	Berkeley.
Mollie Morton	Sacramento.
John Dunning Rideout	
Edward Heald Stearns	
Arthur Irwin Street	

On motion, the degree of Bachelor of Arts was conferred as recommended.

2. By the Faculty of the College of Letters, recommending that the degree of Bachelor of Letters be conferred upon the following candidates:

William Henry Davis Fanny Matilda Henderson	Marvsvilla
Fanny Matilda Henderson	Oakland
Leslie Kandali Hewitt	Log Angeledre
Edward Coke Hill Fred, William McNear Ruth Merrill	Seattle, Washington
Fred. William McNear	Oakland
Ruth Merrill	Sacramento th
William Sidney Smith	$\cdot$ Stockton $\mathbf d$
	***

On motion, the degree of Bachelor of Letters was conferred as recommended.

3. By the Faculty of the College of Letters, recommending that the degree of Bachelor of Philosophy be conferred upon the following candidates:

Henry French Bailey	Santa Cruz
James Hickcox Carey	San Francisco
Josephine Estelle Chanman	Alamedal
Rose Mary Dobbins	Berkeley! (
Ernest Norton Henderson	Sutter Creek!
Norman Russell Lang	Oakland
Lewis McKisick	San Francisco
Orrin Kip McMurray	Lorin
Anna McNeill	
Ada Hope Ramsdell	
Frank Elmer Rich	
William Lafayette Rodgers	Watsonville
Leon Samuels	
Guy Heancastle Stokes.	Berkeley.
Donzel Stoney	San Francisco.
Chas. Edward Townsend	Oakland.
Frederick Leslie Wharff	San Francisco.
Harry Lord Wilson	San Francisco.
	i i

On motion, the degree of Bachelor of Philosophy was conferred as recommended.

4. By the Faculty of the College of Mechanics, recommending that the degree of Bachelor of Science be conferred on the following candidates:

David Clarence Demarest Hugh Howell	Angels Camp.
Hugh Howell	Oakland.
Cornelius B. Lakenan	Grass Valley.
Cornelius B. Lakenan Arthur Fisher Mack	Westminster.

On motion, the degree of Bachelor of Science was conferred as recommended.

5. By the Faculty of the College of Civil Engineering, recommending that the degree of Bachelor of Science be conferred upon the following candidates:

Daniel Sawyer Halladay	Santa Ana.
Arthur Incell	San Francisco.
Jabez Arthur Jenkins	Grass Valley.
Henry Gridley Parker	Santa Ana.
Archie Burton Pierce	San Francisco.

On motion, the degree of Bachelor of Science was conferred as recommended.

6. By the Faculty of the College of Chemistry, recommending that the degree of Bachelor of Science be conferred on the following candidates:

Samuel Stodole Peck.	San Francisco.
Wallace Irving Terry	Sacramento.
Wallace Irving Terry Victor King Chestnut	Oakland.

On motion, the degree of Bachelor of Science was conferred as recommended.

7. By the Faculty of the College of Agriculture, recommending that the degree of Bachelor of Science be conferred on the following candidate:

Hubert Paul Dyer.....Oakland

On motion, the degree of Bachelor of Science was conferred as recommended. [June 24, 1890.]

#### 38. University Medal.

President Davis submitted the recommendation of the Academic Council, that the University Medal for 1890 be awarded to Orrin Kip McMurray.

On motion, concurred in. [June 24, 1890.]

#### 39. DUPLICATE DIPLOMA.

Mr. Kelsey's diploma was destroyed by fire, as stated in the following sworn statement, and the Board of Trustees request the Board of Regents to issue a duplicate diploma.

> E. W. RUNYON, Secretary Board of Trustees.

To the honorable Board of Regents of the University of California:

This is to certify that on the fourth day of July, 1889, in the City of Ellensburgh, County of Kittitas, Territory of Washington, the diploma granted to Harry D. Kelsey, in 1888, by your honorable body, was destroyed by fire on the aforesaid date, in the general conflagration of the aforesaid city.

HARRY D. KELSEY.

Subscribed and sworn to before me, a Notary Public in and for the County of San Mateo, State of California, the fourteenth day of September, 1889.

GEO. C. ROSS, Notary Public. E. W. Runyon,

Correct:

Dean Department of Pharmacy, University of California.

Thereupon, the Board ordered a duplicate diploma to be issued to said Harry D. Kelsey. [November 12, 1889.]

#### 40. AGRICULTURAL EXPERIMENT STATIONS.

#### Clerk to the Director.

That the Committee on Experiment Stations be authorized to make the appointment to the position of Clerk to the Director of Agricultural Experiment Stations; said appointment to continue until the next meeting of the Board. [Report of special committee to fill vacancies; concurred in, July 2, 1889.]

L. W. Maslin was appointed, and resigned January 1, 1890. Hilgard:

Berkeley, December 18, 1889.

Hon. J. West Martin, Chairman Committee on Experiment Stations:

ship in this department, having tendered his resignation in consequenciable to that particular item of the budget. of his appointment to the superintendency of the vineyard at the Stat Home for the Feeble-Minded, I respectfully nominate as his successo Mr. E. F. Goodyear (a student of the University, now on leave of absence on account of financial disability, but having a first rate class record for three terms), and request your approval of his appointment, to take effect January 1, 1890.

It should be understood, and I have so informed Mr. Goodyear in advance, that the clerk cannot claim the regular privileges of vacation His absence necessarily throws all his duties on the Director, and in the temporary absence of the latter it is necessary that the regular business correspondence, account keeping, etc., should be attended to as closely as ever. I suggest that it would be well to put this regulation in officia form in making the new appointment.

Respectfully,

E. W. HILGARD,

Director.

The appointment of E. F. Goodyear as Clerk to the Director, at salary already ordered by the Board, namely, \$50 per month, was then made with the conditions stated in Director Hilgard's letter. [January 18, 1890.]

Budget of Agricultural Experiment Station.

Regent Martin, from the special committee on Agricultural Experiment Stations, submitted the following:

Berkeley, February 10, 1890.

Hon. J. West Martin, Chairman Committee on Experiment Stations:

DEAR SIR: You are aware that the budget for the current fiscal year reserved the sum of \$1,980 towards the equipment of an Experiment Station, to be established in Southern California, of which there seemed to be a definite prospect under offers made by the Pomona Land and Water Company, in conjunction with Mr. Richard Gird. The consummation, as I understand, still depends simply upon the realization by the latter of certain business enterprises, which has been delayed by the depression of values in that section. According to my latest information, it is probable that this will occur within this month. But the season is advancing very fast, and it is certain that not much could in any case, be done toward any actual work before next autumn. It therefore appears to me that in order to avoid the necessity of precipitate expenditure of the reserved sum—already reduced to \$1,542 14 by allowance made for expense of water supply for the Amador Stationat the end of the fiscal year, I propose to begin to use it at once for the making of such needed improvements at the stations already in active progress as might otherwise have been made more gradually, but would

in any case have had to be made within the next two years. Then, Regent Martin presented the following communication from Director should the matter of the Southern Station come to a point, we can begin improvements there after June thirtieth of the present year, in time to be ready for active operations next season.

If this disposition of the matter meets the approval of yourself and the Finance Committee, I propose to make at once a number of requisi-DEAR SIR: Mr. L. W. Maslin, the present incumbent of the clerk tions looking to the proper expenditures of the above sum, and charge-

Very respectfully,

E. W. HILGARD, Director of Experiment Stations.

Regent Houghton moved that the Professor be allowed to use the unexpended balance of \$1,542 14 on the Experiment Stations now equipped. [Carried, February 11, 1890.]

#### Insurance.

We report that a policy covering the value of \$1,800 on the Experiment Station building, at Paso Robles, has expired, and request instructions as to renewal. [Report of the Finance Committee; renewal ordered, November 12, 1889.]

We recommend that the buildings of the Agricultural Experiment Stations be insured, the premiums to be paid from the United States Experiment Station Fund of \$15,000. [Report of the Finance Committee; concurred in, March 11, 1890.]

Certificate of Deposit of Committee of Tulare Grange.

The committee of Tulare Grange, appointed to collect money and put up buildings for above station, deposited by mistake \$40 in Tulare Bank to the credit of the Regents.

We recommend the adoption of the following:

Resolved, That the Secretary is instructed to indorse said certificate of deposit, payable to B. F. Moore, W. F. Stuart, E. S. Pinney, and J. H. Bolche, committee of Tulare Grange, with the understanding that said amount is to be expended only on buildings belonging to the San Joaquin Valley U.S. Experiment Station at Tulare. [Report of the Finance Committee; adopted, March 11, 1890.]

Morrill Senate Bill No. 3,256 Indorsed by the Regents.

Regent Martin presented the following:

WHEREAS, The Regents of the University of California having under consideration the Morrill Senate Bill No. 3,256, introduced in the Senate of the United States March 25, 1890, entitled "A bill to establish an educational fund, and apply the proceeds of the public lands, and a portion of the receipts of certain land grant railroad companies, to public education and the more complete endowment and support of colleges for the advancement of scientific and industrial education."

Resolved, That the Board of Regents does hereby approve the provisions and indorse the purposes of the said bill, and recommends its passage. And the President of the University is hereby authorized to transmit a copy of the above preamble and the resolution to the Senate Committee on Education and Labor having the bill in charge, under to be paid out of the balance of the Lick Fund now in the hands of the his official indorsement.

[Adopted, May 13, 1890.]

### 41. RELATING TO THE LICK ASTRONOMICAL DEPARTMENT.

# Lease to R. F. Morrow.

certain lands on Mount Hamilton, would expire March 1, 1890, and recommended that a new lease be executed to R. F. Morrow for a term of three years.

On motion, the Committee on Lick Observatory was authorized to execute a lease for three years to R. F. Morrow. [February 11, 1890.]

The lease was executed.

# Planting Trees on Mount Hamilton.

We recommend that \$100 be appropriated for planting trees, and trees only, at Mount Hamilton by the Agricultural Department of the Uni versity, under the direction of the Committee on Lick Observatory [Report of Committee on Lick Observatory; adopted, December 10] 1889.]

Repairs to Retaining Walls.

It is necessary that the retaining wall protecting the upper side of the roads on Mount Hamilton be rebuilt. The material used is a friable sandstone, which is rapidly going to pieces. We have instructed the Director to rebuild with brick and cement, and to use the men on the grounds for that purpose. There is some cement at the Observatory but more will be needed. The cost of the new retaining wall should be charged against the balance of \$3,626 21 in the hands of the Lick Trust. [Report of Committee on Lick Observatory; approved, June 24, 1890.]

# Brick Buildings on Mount Hamilton to be Oiled.

Your committee is of the opinion that the exterior of the brick build ings on Mount Hamilton should be oiled with crude petroleum. The cost will be less, and the work will be more serviceable than any other material.

We submit the proposition with the recommendation that the committee be authorized to carry out this plan at the least possible cost The cost can be charged to the budget apportionment of the Lick Observatory. [Report of the Committee on Lick Observatory; concurred in, June 24, 1890.]

# Improvement of Floor around Lick Mausoleum.

Regent Phelps presented a letter from the Secretary of the Lick Trustees in relation to the improvement of the floor around the Lick Mausoleum, and moved that said improvement be made.

As an amendment, Regent Hager moved that the Lick Trustees, with the consent and approval of the Committee on Lick Observatory, be authorized to complete the improvements to the Lick Mausoleum. Cost

Trustees. [Adopted as amended, July 23, 1889.]

The plans for the foregoing improvements have been revised, and the work will be delayed.

Insurance of Frame Buildings on Mount Hamilton.

Regent Hallidie reported that insurance, amounting to \$4,300, upon Regent Phelps reported that the lease to Robert F. Morrow, covering certain frame buildings on Mount Hamilton, belonging to the Lick Astronomical Department, had expired. A motion to renew policies covering \$4,300 on said buildings, was adopted. [June 10, 1890.]

# Insurance of Large Dome.

Regent Phelps moved that, as the dome at the south end of the Lick Observatory was built of stone and iron, and was fireproof, that the insurance on the same be not renewed. [Adopted, July 23, 1890.]

Regent Hager offered the following:

Resolved, That the professors and astronomers at the Lick Observatory be authorized to take books, etc., from the library at Berkeley, on the same terms allowed the professors at Berkeley. [Adopted, September 10, 1889.]

Report of the Committee on Library and Museum.

Binding of Books, etc., for the Lick Observatory Library.

The reports of the Director of the Lick Observatory and the Librarian of the University, show that there are a number of books and pamphlets at the Lick Observatory Library requiring binding-making seven hundred and twenty-nine volumes, at an estimated cost of about \$420.

Ordered that the books be bound, and that \$420 be appropriated for that purpose from the General Fund. [September 10, 1889.]

Purchase and Subscription of "Himmel und Erde."

For purchase and subscription of "Himmel und Erde," monthly (Berlin), from October, 1889, to October, 1890. Cost, \$5. [Concurred] in, November 12, 1889.1

Purchase of Argelander's Atlas.

We recommend the purchase of Argelander's Atlas for the Lick Observatory. Cost not to exceed \$45. [Adopted, December 10, 1889.]

# Periodicals.

Regent Hager recommended that the following periodicals be subscribed for for the use of the Lick Astronomical Department:

Journal of Mathematics, Vols. 106 and 107		
Astronomische Nachrichten, Vols. 125 and 126. Bulletin Astronomique, 1890.	4 75	•
Observatory, 1890 Nature, 1890	3 50 6 00	
Astronomical Journal, 1890	5 50	
Annals of Mathematics, 1890	2 00 3 00	
'Matal	#00 7F	

[Ordered, March 11, 1890.]

#### Periodicals; Standing order for.

Regent Stebbins, on behalf of the Committee on Library and Museum recommended that a standing order be adopted for regular annual subscription to the following periodicals for the use of the Lick Observatory:

Nature (American edition)	\$6	(
Astronomische Nachrichten (per 2 vols.)	8	(
The Observatory	3	į
Astronomische Nachrichten (per 2 vols.). The Observatory Crelle's Journal of Mathematics	7	1
Astronomical Journal	5	į
Sidereal Messenger (new price)	3	(
Sidereal Messenger (new price) Bulletin Astronomique	4	•
Annals of Mathematics	2	(
Himmel und Erde	5	Ò

# [Concurred in, April 8, 1890.]

#### 'Books to be Purchased.

Regent Stebbins, on behalf of the Committee on Library and Museum, submitted a requisition of Director E. S. Holden, requesting that the following books be purchased for the use of the Lick Astronomical Department, payable out of the budget for the next year, recommending that purchase be ordered:

General index to Vols. 1-15 of "Sirius"—3 m.	\$0.90
Sammlung von Formeln der Mathematik (Dr. W. Laska); 1st Lieferung, \$1 90,	
2d Lieferung, 6.50 m., 3d Lieferung, (i) 5 m.	5 50
J. Bertrand: Cacul des Probabil; tes 1 Vol. 8mº 1889—12 fcs.	3 12
General index to Vols. 1-10, American Journal Mathematics, 1 Vol., 4 <sup>to</sup>	1 00
F. Tisserand: Traité de Mécanique Céleste; Vols. 1-2	13 00
V. Koukoly: Praktiche Anlertung zur Himmels Photographie, 1 Vol.	2 00
Pendelbury's Lenses and System of Lenses (6 m.), 1 Vol.	1 80
Zoellner: Grundzige einer allgenner Photometrie des Himmels-about 7 marks.	2 10
General Analytical Index to Encyclopædia Britannica.	6 00

# Concurred in, and purchase ordered. [June 10, 1890.]

# Appointment of a Secretary of the Lick Observatory.

Not to exceed \_\_\_\_\_\_\$36 00

In the matter of the appointment of a Secretary of the Lick Observatory, vice Mr. Hill, resigned, referred to this committee by the Board, September 10, 1889, we recommend that Augustus J. Burnham be temporarily appointed Secretary, with a salary of \$50 per month, to date from October 1, 1889.

On motion, the report was amended so as to read "from September 15, 1889." (Report of Committee on Lick Observatory.)

Recommendation concurred in as amended. [November 12, 1889.]

# Appointment of a Laborer at the Lick Observatory.

Resolved, That Hugh Kennedy be employed at the Lick Observatory as a laborer, at a salary of sixty (\$60) dollars per month. [Report of Committee on Lick Observatory; adopted, July 23, 1890.]

#### Post Office on Mount Hamilton.

It is the opinion of this committee that a Government Post Office is needed at Mount Hamilton, and we therefore recommend the adoption of the following resolution:

Resolved, That the California delegation in Congress be requested to use their influence to procure the establishment of a postal route between San José and Mount Hamilton, in the County of Santa Clara, and a Post Office at the Lick Observatory, with Mr. S. W. Burnham as Postmaster. [Report of Committee on Lick Observatory; adopted, November 12, 1889.]

In December, 1889, a Post Office was established at Mount Hamilton, and S. W. Burnham was appointed Postmaster.

# Purchase of Mules.

Resolved, That the Committee on Lick Observatory be authorized to purchase, at a cost not to exceed \$300, a span of mules, to be used for all work at the Observatory, and to sell the team now on hand. [Report of the Committee on the Lick Observatory; adopted, July 23, 1889.]

# Claim of Mount Hamilton Stage Company.

We present herewith the claim of the Mount Hamilton Stage Company for \$400, for carrying mail, expressage, and freight between Mount Hamilton and San José, without recommendation. [Report of the Finance Committee; ordered paid, January 18, 1890.]

# Donation of \$200 to Purchase a Spectroscope.

Regent Phelps, Chairman of the Committee on the Lick Observatory, read the following letter from Director E. S. Holden:

# Mount Hamilton, February 6, 1890.

# Hon. T. G. Phelps, Chairman Lick Observatory Committee (through Secretary of the University of California):

DEAR SIR: The American Association for the Advancement of Science has a fund whose interest is spent in grants in aid of science. I applied for \$300 of this fund for a small spectroscope, to use with the 36-inch equatorial, and gave reasons for wanting it, which were sufficient to the Trustees of the fund. They agreed that it was needed. Objection was made to granting the \$300 to the Lick Observatory, because "California was a rich State," and "because Professor Holden could easily raise the money by writing a couple of letters," etc., etc. Professor Pickering, Director of Harvard College Observatory, stood our friend, and finally got the Trustees to promise to give us \$200, if we would raise \$100. The money is to buy a spectroscope to remain permanently at the Lick Observatory.

Accordingly, I beg to submit herewith a requisition for \$100, part payment for this instrument.

I am, dear sir, very respectfully yours,

E. S. HOLDEN.

\$44

ANNUAL REPORT OF THE

Hotel on Mount Hamilton.

Regent Hager, from the Committee on the Lick Observatory, presented

the following:

Resolved, In the opinion of this Board it is necessary for the uses and purposes of the Lick Observatory, that there should be erected on the grounds of the Observatory, buildings sufficient to afford to officers, employés, students, and visitors, necessary accommodations, board, lodging, etc., and in order to carry out such purpose the Committee on the ment of the Lick Observatory telephone and telegraph lines. [Report Lick Observatory is authorized to negotiate and to report any proposed agreement for the consideration and action of this Board. [Adopted, 1889.] January 18, 1890.]

The following is the agreement entered into:

This agreement made by and between the Regents of the University of California, parties of the first part, a corporation, and Alexis B. Chapin, party of the second part, witnesseth: That whereas, the parties of the first part possess, under and by virtue of an Act of Congress entitled "An Act granting a site for an Observatory to the Trustees of the Lick Observatory of the Astronomical Department of the University of California," approved June 7, 1876, all that piece, parcel, or tract of land hereinafter particularly described; and whereas, in the opinion of the Board of Regents, it is necessary for the uses, purposes, and proper administration of said Lick Observatory that there should be erected on said tract of land buildings to afford suitable accommodation, board, lodging, etc., for the employes of said Observatory and such persons as may visit the same; and whereas, the said party of the second part has proposed in writing to erect, finish, maintain, and conduct such buildings upon said particularly described tract of land.

Now, in consideration of the premises, said party of the first part hereby grants, for the term of ten years from the date hereof, the privilege and license to said party of the second part to construct such buildings for the purpose aforesaid, on the tract of land situated in Santa Clara County, State of California, described as follows, to wit:

Among other covenants, it is expressly agreed by said parties:

First—That upon and contemporaneous with the execution hereof, said party of the second part shall and will execute and deliver a good and sufficient bond to said party of the first part in the sum of \$5,000, with two sureties, to be approved by said first party, to the effect that said second party will immediately proceed to erect on said premises said buildings, and complete the same on or before the —day of —, 1890, together with the necessary stables, barns, outhouses and fences, and also a reservoir or reservoirs for water, convenient and sufficient for said purposes.

That the main building shall contain not less than thirty rooms, and other buildings and improvements shall be erected according to the plans and specifications to be furnished by said second party, and approved by said first party. Said buildings may, upon like approval, be enlarged, from time to time, as may be required.

Second-Said party of the second part agrees and promises to manage and conduct said premises in an orderly and respectable manner, and to exclude therefrom all disorderly persons; and, further, not to sell, or permit to be sold on said premises, malt or spirit-uous liquors of any kind, except it be wine to visitors, and then only in bottles in quantities of not less than one pint or quart.

Third—This license and agreement is personal to said second party, and is not assignable without the consent of the party of the first part, given in writing.

Fourth-Any violation of the covenants, agreements, or provisions of this agreement or any or either thereof, shall work a forfeiture of the same, and shall authorize said first party, at its option and without notice, to close said buildings and eject all persons from said premises, either with or without legal proceedings, and to take possession thereof, and said second party expressly waives all claims for damages by reason thereof.

Fifth-At the expiration of the term of this instrument, the said second party shall have the right to a ten years' renewal thereof, upon the same terms and conditions, on a request made to said parties of the first part thereof, in writing, duly served on said

sired est made to said parties of the first part thereof, in writing, duly served on said first party six months prior to said expiration hereof.

Sixth—Upon the termination of this license and agreement, or the period for which the same may be renewed, in case of renewal thereof, the parties of the first part shall have the option to purchase and, with that view, to request an appraisement of all the improvement of the parties of the party under and by authority. ments made or placed upon said premises by said second party, under and by authority of this agreement, and may or may not, as said first party shall elect, purchase all said buildings and other improvements made and erected on said premises by said second party at such appraisement, to be made by three appraisers, to be selected, one each by

Regent Phelps recommended that \$100 be appropriated for the pure the parties hereto, and the third one by said appraisers so selected. The sum fixed as chase of a spectroscope, as requested.

[Concurred in, February 11 the value of said property by any two of said appraisers shall be the appraised value thereof for the purposes of this covenant, provided nothing shall be allowed for the reservoirs, and also that the value of the brick used in the walls, foundation, and chimneys of said buildings shall be deducted from the appraised value thereof.

It being understood and agreed that said second party may use not to exceed fifty thousand bricks, now on said premises, and belonging to said first party, for said reser-

voirs, chimneys, foundation, and walls.

In witness whereof, the said parties hereto have this - day of -, 1890, executed and delivered the foregoing instrument.

# Repair of Telegraph and Telephone Lines.

We recommend that \$300 be appropriated for repair and improveof the Committee on the Lick Observatory; adopted, December 10,

# Proposed Agreement with Western Union Telegraph Company.

Regent Phelps presented from the Committee on the Lick Observatory the following proposed agreement with the Western Union Telegraph Company:

This agreement, made and entered into this—day of—, 1890, by and between the

This agreement, made and entered into this—day of—, 1890, by and between the Western Union Telegraph Company, party of the first part, hereinafter for convenience called the Telegraph Company, and the Regents of the University of California, party of the second part, hereinafter for convenience called the Regents.

Witnesseth: That whereas, the Regents own a line of telegraph poles and two wires along the highway between San José, California, and the Lick Observatory, on the summit of Mount Hamilton, Santa Clara County, California, which line of poles and wires it is proposed shall be leased to the Telegraph Company.

Now, therefore, for and in consideration of the covenants and agreements herein contained the next the box of the County tells.

rained, the parties hereto have mutually agreed as follows:

First—The Regents hereby lease to the Telegraph Company all of said line of poles and said two wires, together with the insulators and appurtenances thereto belonging, with the exclusive right to erect and maintain on said poles such additional wires as the Telegraph Company and the exclusive right to erect and maintain on said poles such additional wires as the Telegraph Company and the exclusive right to erect and maintain on said poles such additional wires as the Telegraph Company and the exclusive right to erect and maintain on said poles such additional wires as the Telegraph Company and the exclusive right to erect and maintain on said poles such additional wires as the Telegraph Company and the exclusive right to erect and maintain on said poles such additional wires are the telegraph Company and the exclusive right to erect and maintain on said poles such additional wires are the telegraph Company and the exclusive right to erect and maintain on said poles such additional wires are the telegraph Company and the exclusive right to erect and maintain on said poles such additional wires are the telegraph Company and the exclusive right to erect and maintain on said poles such additional wires are the telegraph Company and the exclusive right to erect and maintain on said poles such additional wires are the telegraph company and the exclusive right to exclusive right t graph Company may deem expedient, together with the right to use and operate said poles and wires, and to enjoy the returns and profits thereof as fully and effectually as poles and wires, and to enjoy the returns and profits thereof as fully and effectually as could be done by the Regents; to have and to hold the same unto the Telegraph Company, its successors and assigns, during the continuance of this agreement. The Telegraph Company agrees to maintain said poles and said two wires in good order and repair at its own expense. Upon the termination of this agreement, the Telegraph Company agrees to return said poles and two wires, together with the insulators, fixtures, and appurtenances thereof, to the Regents, in like good order and repair as when received by the Telegraph Company, ordingry wear and tear excepted. the Telegraph Company, ordinary wear and tear excepted.

Second—The Regents agree to furnish to the Telegraph Company at the Lick Observatory, correct time signals of the standard time of said Observatory daily, at such time tory, correct time signals of the standard time of said Observatory daily, at such time as the Telegraph Company may require. The Regents hereby grant to the Telegraph Company the exclusive right to receive, transmit, deliver, and dispose of, at its own risk, such time signals from said Lick Observatory, to and at all points where the Telegraph Company may desire to use or dispose of said signals, it being understood and agreed that the Telegraph Company may make use of said time signals for its own account and benefit as the Telegraph Company may deem proper. It is, however, expressly agreed, that the Regents shall not be responsible for the accuracy of such time signals.

Third—If the Telegraph Company shall, at any time during the continuance of this agreement, establish a telegraph office for the transaction of commercial or public teleagreement, establish a telegraph omce for the transaction of commercial or public telegraph business at the Lick Observatory, the Regents agree to furnish suitable office room therefor, and the Telegraph Company shall furnish the necessary instruments, batteries, and supplies, and a competent and proper telegraph operator for said telegraph office, the appointment of said operator to be approved by the Regents; it being understood that the Telegraph Company shall have and retain all receipts for such telegraph business.

Fourth—In case the Telegraph Company shall establish said telegraph office at said Observatory, one of the two wires hereby leased shall be used for commercial or public telegraph business, and time signals and the other wire may be used by the Regents and

telegraph business, and time signals, and the other wire may be used by the Regents and, under their direction, by their employes as a private telephone wire between said Observatory, San José, and the University of California, at Berkeley; provided, however, that no public telephone business, and no business for any person or party other than the Regents and their employés, shall, without the consent of the Telegraph Company, be sent or received over said wire after the establishment of said office at said Observatory.

Fifth—In consideration of the performance of the foregoing covenants and agreements by the Regents, the Telegraph Company agrees to transmit from its San José office, and

after the establishment of a telegraph office in said Lick Observatory, then from that office messages by, to, or for the Regents, or any of them or their employés, as may be required and directly pertaining to and connected with the administration of affairs of said University, or of said Lick Observatory, free and without charge, and all messages for the public at usual and reasonable rates.

ANNUAL REPORT OF THE

Sixth—The provisions of this agreement shall take effect on the —— day of ——, 1890 and shall be and continue in force, for and during the term of five (5) years from said date Seventh—It is further agreed that any failure to perform, or default in the performance of any of the covenants or obligations herein provided for on the part of said Telegraph Company, may, at the option of said Regents, be taken and deemed to be a forfeiture of the performance of the perfor this agreement and all rights thereunder, without further notice. In witness whereof, the parties hereto have caused the names of their proper officers to be hereunto subscribed and their corporate seals to be hereto fixed and tested, the day and year first above

THE WESTERN UNION TELEGRAPH COMPANY.

-, Vice-President. —, Secretary.

By -----

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA.

Regent Phelps then read the following letter:

SAN Francisco, January 13, 1890.

# T. G. Phelps, Esq., Office Collector of Customs, San Francisco:

DEAR SIR: Referring to inclosed draft of proposed agreement between this company and the Regents of the University of California, I regre that I cannot approve the fifth clause, which would require this company to transmit free of charge from San José or from the Lick Observ atory, all messages filed by the Regents of the University, or any o them, or their employés, pertaining to the administration or busines of both the University of California and of the Lick Observatory, to all points in the United States without limit.

Such was not my understanding of the proposition made by Judg Hager and Mr. Bartlett at our last interview. The proposition made by the latter, as I understood it, required the telegraph company to transmit free of charge all messages for the Regents or their employée pertaining to the administration or business of the Lick Observatory between the office of the Regents at San Francisco or Berkeley and San José, and the Lick Observatory, after the establishment of the telegraph office at that point.

I trust you will understand that I do not desire to make any speculation out of the proposed agreement, or, in fact, to make any profit whatever. The present telegraph line between San José and the Lick Observatory is in very bad condition, and requires immediate reconstruction to make it serviceable. The expense of rebuilding the line and of maintaining it in good order and repair for the term of five years, will be quite large, and if the telegraph company assumes this expense, and in addition thereto transmits the messages of the Regents and their employés, pertaining to the business of the Observatory, between the Observatory or San José and San Francisco and Berkeley, I think we will be doing all that the circumstances warrant.

Under no circumstances could we assume the burden of transmitting all the messages of the Regents and their employés pertaining to the business of the University, to all points in the United States without

I will be very glad if your committee will reconsider the matter. Very respectfully,

> FRANK JAYNES, Superintendent.

Regent Phelps presented the following:

Resolved, That the Committee on Lick Observatory be and hereby is authorized to amend the lease of the telegraph line from San José to Mount Hamilton, as read, so as to meet the objections of the Western Union Telegraph Company, and after making such amendments, to execute the same on behalf of the Regents.

The foregoing resolution was amended so as to require the President and Secretary of the Board of Regents to execute the agreement with

the said telegraph company.

The resolution, as amended, was adopted. [January 18, 1890.] The Western Union Telegraph Company refused to accept the contract as amended.

# Eclipse of 1890.

Whereas, Regent Charles F. Crocker has generously offered to bear the expense of an expedition to Cayenne, South America, to observe the total solar eclipse of December, 1889; therefore,

Resolved, That Messrs. Burnham and Schaeberle are hereby authorized to proceed, without loss of salary, on or about November 1, 1889, to Cayenne, and establish at some proper point an eclipse station, and to remain there as long as the proper observance of said eclipse and such other work in connection therewith as may be necessary, not later than February 1, 1890; provided, that such expedition shall be entirely without cost to the University of California, and that the safe return of all instruments belonging to the Lick Observatory, which may be used in such expedition, shall be fully insured; further, be it

Resolved, That the Director of the Lick Observatory be instructed to prepare general plans and directions for the expedition, and that Director Holden be instructed to furnish such instruments as can be spared and are necessary for use on the expedition. (Report of Committee on the

Lick Observatory.)

On motion, adopted. [July 23, 1889.]

# Pamphlet on Eclipse of 1890.

Regent Phelps reported that the Lick Observatory expedition to examine the recent eclipse had been successful, and summitted the following: Resolved, That one thousand copies of a pamphlet on the eclipse of the sun of December 21, 1889, be ordered printed by the State Printer. [Adopted, January 18, 1890.]

# Thanks to Regent Crocker.

Regent Rodgers offered the following:

WHEREAS, The Lick Observatory Eclipse Expedition to South Amer-

ica has produced results of lasting value to science; therefore,

Resolved, That the Board of Regents hereby tenders its thanks to Regent Chas. F. Crocker, for his generous and timely assistance in the matter of providing for the equipment and expenses of this expedition, and its congratulations that the results attained are so satisfactory. [Adopted, May 13, 1890.]

#### 42. REPORTS OF THE COMMITTEE ON LIBRARY AND MUSEUM.

## Exchange with President Davis.

That the Librarian be authorized to allow President Davis to take from the Library, in exchange for books, etc., donated by him to the University, duplicates (three volumes) of the reports of the U. S. Commissioner of Education for 1880, 1883-4, and 1884-5, as requested by letter of August 7, 1889. [Concurred in, September 10, 1889.]

# Bids for Binding.

Resolved, That the Committee on Library and Museum be authorized to invite proposals for binding and marking books and pamphlets belonging to the University. [On motion, adopted, September 10, 1889.]

# Purchase of Missing Numbers of North American Review.

That the purchase of certain missing numbers of the North American Review (N. S.) be made, as recommended by the Librarian by letter of September 4, 1889. Cost not to exceed \$12 60. [Concurred in, September 10, 1889.]

#### Apportionment of the Reese Fund.

An apportionment of the Reese Fund, and the purchase of books among the departments, is herewith reported:

·	
Agriculture, Botany, Viticulture—Hilgard	_ \$275 0
Astronomy, Civil Engineering—Soulé	_ 200 0
Chemistry—Rising	. 200 0
Drawing—Kower	50 0
English Language and Literature—Gayley	300.0
Æsthetics (special for this year only)—Gayley	100 0
French Language and Literature -Paget	100 0
German Language and Literature—Putzker.	100 0
Greek Language and Literature—Bunnell	200 0
Geology, Physiology, Zoölogy—Joseph Le Conte	225 0
Natural History in General—Rivers	100 0
History Politics Social Science in general Moses	5UU U
History, Biography, Constitution, Politics—Jones	100 0
Latin Language, Literature, Archeology—Howard	200 0
Mathematics—Stringham	250 0
History, Biography, Constitution, Politics—Jones Latin Language, Literature, Archæology—Howard Mathematics—Stringham Mechanics, Mechanical Engineering—Hesse Military Science—Harrison	200 0
Military Science—Harrison	50 00
Military Science—Harrison Mineralogy, Economic Geology, etc.—Jackson	100 0
Mining—Christy	200 0
Philosophy—Howison	250 00
Physics—John Le Conte	200 0
Works of reference, sets of periodicals, works of fine art—Librarian	300 00
	\$4,000 00
FO 11 37 1 40 4440 7	4-,000 00

#### [Concurred in, November 12, 1889.]

#### Periodicals to be Subscribed For.

Regent Hager, Chairman of Committee on Library and Museum, recommended that the Secretary be authorized to subscribe for the following periodicals, to make up the amount formerly ordered for purchase of periodicals:

American Anthropologist	\$3 00
American Journal of Folklore	3 00
American Journal of Archæology	5 00
Magazine of Western History	3 20
Electrician (London)	4 50
New Review (London)	1 75
New England Magazine	3 00
	\$23 45

# [Concurred in, January 18, 1890.]

# Books for English Department.

Regent Hager, on behalf of the Committee on Library and Museum, presented a requisition from Professor Gayley for the following books: Philolog. Society Dictionary, Part V, \$3 25; Bosworth-Toller Anglo-Saxon Dictionary, 15 shillings; and recommended that they be purchased by the Secretary. [Concurred in, February 11, 1890.]

#### Binding Books.

Regent Hager presented the report of the Committee on Library and Museum:

There is immediate necessity for the binding of a number of books, etc., for the Reese Library. These books will be bound under the contract lately made with the Hicks-Judd Co. We therefore recommend that the sum of \$375 be appropriated from the apportionment for the library for the binding of said books.

The apportionment was \$1,000. [Carried, February 11, 1890.]

# Collection of Mollusca.

Regent Hager, Chairman of the Committee on Library and Museum, presented the following:

Resolved, That the application of Mr. O. Button, to sell to the University a collection of mollusca, be referred to Prof. Joseph Le Conte for examination, with the request that he would report his opinion to the Committee on Museum. [Adopted, March 11, 1890.]

#### 43. Donations.

# University of California, November 11, 1889.

#### Hon. Horace Davis, President of the University:

DEAR SIR: I have the honor to inform you of the receipt by the Mining Department of the University of the gift by Mr. Eckley B. Coxe, of Drifton, Lucerne County, Pennsylvania, of a working model of his patent gyrating screen for classifying ores. This model was constructed especially for the University of California, in accordance with a promise made to me at the time of my visit to his mines in Pennsylvania in the summer of 1888. A similar model has been on exhibition at the Paris Exposition of this year. Will you kindly call this matter to the attention of the Board of Regents at its next meeting, in order that a proper acknowledgment may be made of the gift.

I am, sir, with much respect, very sincerely yours,

SAMUEL B. CHRISTY.

Read, and the Secretary was directed to transmit to the donor the thanks of the Board. [November 12, 1889.]

ANNUAL REPORT OF THE

San Francisco, October 1, 1889.

The honorable Board of Regents, University of California, Berkeley, Cal.

GENTLEMEN: I have the honor to offer for your acceptance the files of the San Francisco "Daily Bulletin" and Sacramento "Record-Union," from April, 1873, to the present time, which will complete the files of these now in the Library of the University. The latter were purchase from me by the late William E. Sharon, and presented by him to th University. I take pleasure in making his gift complete.

Very respectfully,

L. P. FISHER.

The gift was received, and the Secretary was directed to express t Mr. Fisher the thanks of the Board. [November 12, 1889.]

#### 44. RELATING TO THE UNIVERSITY SITE.

# Pipes of Alameda Water Company.

Regent Martin presented the following report:

The communication of Moses Hopkins, heretofore under consideration by this Board, with reference to a privilege for imbedding and carrying certain water pipes over the University ground, which was referred to the Committee on Grounds and the counsel of the Board at your last meeting, after due consideration the committee herewith beg leave to report and recommend: That a revokable license be and is hereby granted to said petitioner to pass underground over the eastern boundary of the University grounds to a point where a certain roadway intersects Strawberry Creek; thence, following said roadway southerly and westerly in the direction of Prospect Street, over the lands recently purchased from H. A. and Jane O. D. Palmer.

On motion, the following amendment to the report of the committee was adopted: "That a license revokable at the pleasure of the Board of

Regents."

On motion, the following amendment was adopted: "As shown by the accompanying map."

Recommendations concurred in, and report adopted. [September 10, 1890.]

# Use of the Tunnel.

Application of C. L. Hill, C. A. Klinkner, and B. C. Brown for permission to use the tunnel on the University grounds to make experiments in raising mushrooms. [Refused, November 12, 1889.]

# Repair of Sidewalk.

Regent Rodgers offered the following:

Resolved, That the Committee on Grounds and Buildings be authorized immediately to cause the sidewalks on the University grounds at Berkeley to be repaired, and to provide for more comfortable quarters for students when not in class-rooms. [Adopted, January 18, 1890.]

The sidewalks were repaired, but it was found impossible to provide more comfortable quarters for students when not in class-rooms.

Reports of the Committee on Grounds and Buildings.

Street Improvements.

In the matter of the street improvements suggested by the Trustees of the town of Berkeley, we report the probable cost as instructed by the Board:

Oxford Street—grading, macadamizing, guttering, and sidewalks	\$6,000 00
Cost of one half to the University, \$3,000.	
Culvert on Oxford Street (brick or stone)	2,000 00
Cost of one half to the University, \$1,000.	6,000 00
Allston Way—grading, macadamizing, guttering, and sidewalks	0,000 00

Cost of one half to the University, \$7,000.

Your committee submits the following recommendations:

1. That Allston Way be improved at a cost not to exceed \$3,000. Amended so as to read: "That the north half of Allston Way belonging to the University be improved at a cost not to exceed \$3,500, by the Committee on Grounds and Buildings, if deemed advisable by them." [Concurred in as amended, March 11, 1890.]

The improvement of Allston Way will be begun about September 1,

2. That the improvement of Oxford Street be not undertaken at the present time, except in building a culvert to carry the water of Strawberry Creek. [Concurred in, March 11, 1890.]

We recommend that \$1,000 be appropriated to cover the cost to the University of building said culvert. [Concurred in, March 11, 1890.] The culvert has been repaired. The building of a new culvert will

be delayed.

3. A portion of the University site drains its water into the corner of Oxford Street and College Way, to the injury of the property in that neighborhood. This should be corrected at once.

We recommend that \$100 be appropriated for this purpose. [Con-

curred in, March 11, 1890.]

The work recommended by the committee has been completed.

#### Employment of a Painter.

Your Committee on Grounds and Buildings is of the opinion that all the buildings at Berkeley should be painted. There is constant work for one painter; we therefore recommend the adoption of the following resolution:

Resolved, That the Secretary be authorized to appoint a painter, with a salary of \$75 per month, subject to the approval of the Committee on Grounds and Buildings. [Adopted, December 10, 1889.]

The employment of a painter has been deferred.

#### Painting.

We recommend that the exterior of the Harmon Gymnasium and North Hall be painted; that the brick work of South Hall, the Bacon Art and Library building, and the Mechanic Arts building be cleaned and oiled, and that the iron and wood work and roofs be painted, and that this work be done during the coming summer vacation, according to specifications to be prepared by the committee. We further recommend that the committee be authorized to advertise for bids and employ a Superintendent. The probable cost of the work here noted will be about \$3,800. [Concurred in, March 11, 1890.]

ANNUAL REPORT OF THE

Your committee advertised for bids for painting the North and South Halls, the Bacon Art and Library buildings, the Mechanic Arts building and the Harmon Gymnasium, and on the twenty-eighth of April opened the following bids in the presence of the bidders:

No. 1. Farwell & Co.	\$2.973	Ó
No, 2. Wood & Bros.	3,200	00
No. 3. Geo. C. Gottung	2,245	00
No. 4, C, M, Bumbaugh	2.670	00
No. 5. M. J. Donovan	2,985	0

Each bid was accompanied by the requisite bond or a certified check Mr. Geo. C. Gottung's bid of \$2,245 is the lowest bid, but did not include the outside attached wooden buildings of the Mechanic Arts building. He exhibited his estimates showing that he had estimated the cost of painting the attached wooden buildings of the Mechanic Arts building at \$250; that he did not understand that these attached buildings were included in the advertisement. Mr. Gottung's supplementary bid of \$250 was given in the presence of all the bidders, and no objection was made thereto. The question arises whether it is to be accepted, and this point is now referred to the Board. If the supplementary bid is to be accepted, the award should be made to Geo. C. Gottung. His total bid would be \$2,495. The next lowest bid is that of C. M. Bumbaugh—\$2,670.

The bid of George C. Gottung was accepted, and the contract awarded

to him in the sum of \$2,495. [May 13, 1890.]

The greater part of the foregoing work has been finished; the remainder will be completed in July or August of the current year.

### Fire and Time Alarms.

Your committee has considered the proposition to make electric fire alarms and apparatus for electric calls for class hours, and is firmly of the opinion that both ought to be established. The cost by contract would be about \$1,200; under the direction of the College of Mechanics, about \$347. We recommend that said amount be appropriated for the purchase of needed material.

On motion, \$347 was appropriated. [May 13, 1890.]

The work recommended by the committee has been partly done, and will be finished in October next.

### 45. REPORT OF THE LAW COMMITTEE.

Your Committee on Law recommends that the application for payment of \$72 08, on behalf of W. M. Diggins, for work done on Audubon Street, Berkeley, be denied. [Concurred in, February 11, 1890.]

Report of the Secretary accompanying the report of the Law Committee:

FEBRUARY 10, 1890.

To the Law Committee:

The plant at Berkeley:

GENTLEMEN: In the matter of a certain bill for work done on Audubon Street, I beg leave to say:

- 1. That the charge is for the whole length of Audubon Street, say one thousand one hundred feet.
- 2. That the contractor was notified by me that the Regents would not be chargeable for any portion of said work. This notice was given him when he began work.
- 3. I agreed to submit the question to a committee at the start, but the contractor went on and did his work without our consent and against our protest
- 4. The charge is an indirect attempt to tax the University for work done without its consent.

Respectfully,

J. H. C. BONTÉ, Secretary.

### FINANCIAL AND OTHER STATEMENTS.

### 1. VALUE OF PROPERTY BELONGING TO THE UNIVERSITY.

245 <sub>170</sub> acres of ground, at market price of real estate, \$5,600 per acre	\$1,376,088 00		
Buildings Apparatus and other contents of buildings	552,000 00		
Apparatus and other contents of buildings	300,000 00	\$2,228,088	Δ0
Plant at Mount Hamilton		582,925	00
Medical College building, San Francisco		25,000	
United States Land Grant—principal in process of payment. Unsold land—5,658,250 acres, at say, \$5 per acre		43,184 28,294	51 90
,	_	\$2,907,492	41
2. Cash Capital June 30, 189	90.		
Consolidated Perpetual Endowment Fun	d.		
Regring interest		\$1,724,064	94
Cash (awaiting investment) Montgomery Avenue Bonds (not bearing interest)		6,005	06
Montgomery Avenue Bonds (not bearing interest)		22,000 20,000	
Special Funds.	•	\$1,772,070	00
Lick Observatory Fund	ervo 000 00		
Reese Fund (Library)	\$90,000 00 50,000 00		
D. O. Mills Endowment	91,922 16		
University Medal Fund	3,188 54		
Tompkins Endowment	3,858 15 2,053 22		
,		241,022	07
	•	\$2,013,092	07
State tax of 1 per cent on each \$100 of value of the taxable pr State. Amount received for the year 1889-90, being inte	operty of the		
cent on	reer are a ber	2,024,117	80
		\$4,037,209	87

\$11,595 29

### 3. Investment.

O. INVESTMENT.	
Consolidated Perpetual Endowment Fund.	
Bonds	. \$977,500 <b>0</b>
Diverted funds (as per account of March 4, 1881)  Mortgages to June 30, 1890	79,750 d 708,814 g
Special Funds.	\$1,766,064 9
Lick Observatory Fund (bonds)	
Reese Fund (mortgages) 50,000 00	
D. O. Mills Endowment (mortgages) 85,865 76	3
University Medal Fund (mortgages) 3,000 00	
Tompkins Endowment (mortgages) 607 78 Pioche Donation Fund (mortgages) 1,851 55	}
1 totale Donaston F and (moregages)	231,325 0
•	\$1,997,390 0
Cash Awaiting Investment June 30, 1890.	ф1, <i>381</i> ,880 U
Consolidated Perpetual Endowment Fund	
D. O. Mills Endowment 6,056 40	
University Medal Fund 188 54	
Tompkins Endowment 3,250 37 Pioche Donation Fund 201 70	
1 TOURS DOMANON FUNG.	15,702 0
	2,013,092 0
A Larry Many purpose was Every Vala Every Trum 20	1900
4. Loans Made during the Fiscal Year Ending June 30	), 1890.
To N. P. Chipman, on property in Tehama County	\$25,000 00
To D. N. Hastings, on property in Solano County To J. & J. E. Johnson, on property in Oakland, Alameda County	23,000 0
To J. & J. E. Johnson, on property in Oakiand, Alameda County	12,500 00 6,000 00
To J. T. McLean and wife, on property in Alameda, Alameda County  To J. A. Hardin, on property in Mendocino County  To Fritz Boehmer, on property in Alameda, Alameda County	20,000 0
To Fritz Boehmer, on property in Alameda, Alameda County	65,000 00
Total	\$151,500 00
5. PAYMENTS ON ACCOUNT OF MORTGAGE NOTES.	
Merchants' Exchange Association, partial payment of their note	\$35,000 00
C. H. Huffman, partial payment of his note	15,360 00
Mechanics' Institute, payment in full of their note	45,000 00
G. W. Frank, payment in full of his note	1,687 50
-	\$97,047 50
6. Income for the Fiscal Year Ending June 30, 189	90.
Consolidated Perpetual Endowment Fund—Available for Current Expens	es.
State and county bonds (including \$5.105 Lick Observatory bonds)	\$58,049 07
Interest on diverted funds	4,785 00
Mortgages Interest on deferred payments for land	37,505 54
Land fees.	4,056 93 178 00
Patent fees	885 00
Rent of cottages.	1,374 00
Rent of Bailey tract	30 00 50 00
Diploma fees	90 00
Sale of packing boxes	1 25
Hauling platform Insurance bonus	2 00
Insurance premium on mortgaged property	9 50 26 94
Certified copies of land papers.	21 00
Returned freight	11 15
State tax, 1 cent.	101,205 89
Total	\$208,271 27

### Income of Special Funds.

D. O. Mills Endowment (mortgages) Reese Library Fund (mortgages) University Medal Fund (mortgages) Tompkins Endowment (mortgages) Pioche Donation Fund (mortgages) Lick Observatory (bonds)	3,219 181 239 108	93 73 53 00
Total	\$13,944	72

### 7. EXPENDITURES FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

### From the General Fund.

Fuel	973	57
Fuel Equipment and repairs	6,087	
Advertising and printing	301	
Advertising and printing Telegraphing and expressage	492	33
Stationery	257	55
Postage		00
Land administration	469	73
Incidental expenses	72	35
College celebrations		
College celebrationsOfficial and lecturing expenses	982	
Cottage renairs	178	07
Cottage repairs Insurance Water supply	4,323	
Water supply	346	
College of Agriculture	6,954	
College of Chemistry	2,936	
College of Agriculture College of Chemistry College of Civil Engineering	303	
College of Mechanics	213	
College of Mines	264	
Department of Lick Observatory	4.580	
Department of Lick Observatory. Department of Military Science	259	
Department of Mineralogy	273	
Department of Physical Culture	2,153	
Library	2,469	
Museum		
University site improvements		
University site improvements University Printing Office	724	45
omversity I mining omoc		
	\$168,951	89
From Special Funds.		
Liek Observatory Fund	\$5,105	00
Lick Observatory Fund D. O. Mills Endowment—salary of Professor Reese Library Fund—purchase of books	3,999	
Pages Tibrary Fund numbers of books	2,490	
weese instary rund—purchase of books	4,400	00

# 8. EXPENDITURES FROM AGRICULTURAL EXPERIMENT STATION FUND.

Expenditures from the Agricultural 1	Experiment Station Fund (United States
appropriation of \$15,000 per annum	\$15,572 80

This includes expenditures contracted for in the previous year, ending June 30, 1889, and which are therefore to be charged, in our account with the United States, against the appropriation of 1888–9.

9. Receipts and Expenditures of the Reese Library Fund to Jun 30, 1890.

Expenditures.		Receipts.				
To June 30, 1881 To June 30, 1882 To June 30, 1883 To June 30, 1884 To June 30, 1885 To June 30, 1886 To June 30, 1887 To June 30, 1888 To June 30, 1888 To June 30, 1889 To June 30, 1890	5,459 78 3,235 11 5,278 19 3,340 06 1,945 71 1,405 84 3,275 94	To June 30, 1884 To June 30, 1885 To June 30, 1886 To June 30, 1887	3.062 8			
Outstanding bills for books esti- mated at Estimated balance	\$30,534 00 \$2,908 35 1,441 41 \$4,349 76	Balance	\$34,883 ; \$4,349 ; \$4,349 ;			

FUND.
REESE
THE
OF
APPORTIONMENTS
10.

Department of—	1881.	1882.	1883.	1886.	1887.	1888.	1889.	Total.
Physics	_	_	_		_			\$1,011 66
Geology and Natural History	150	150	150	86 66 87 87 88	150	125 28 25 28 28	225 275 275 29 29 29 29 29 29 29 29 29 29 29 29 29	1,086 66
Greek	_	_	_					715 00
History and Political Economy								1,181 908 88 88
English	_	_	_					1,283 33
Civil Engineering and Astronomy					_			286 288 288 288
Mechanics	_		_		_			1,086 66
Mathematics								450 950 950 950 950 950
Mineralogy	_	_	_			_		486 66
Mining and Metallurgy	_	_	_		-	_		811 373 88 89 89 89
Museum	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			99 98	_	_		99 192 201
United States History				,	_			300 00
French			00 OO	98 98	_	-		416 66
Wilitary Dhamstone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				_	-		35
Injuring								75 00
Librarian	00 099		200 000	266 66	433 00	145 00	300 00	2,194 66
Totals	\$2,515 00	\$1,525 00	\$2,125 00	\$2,109 90	\$2,430 00	\$2,000 00	\$4,000 00	\$16,704 90

Expenditures for the Library from the General June 30, 1890.	run	u jor	ine 1e	ur enain		Withdrawn.	Diplomas Issued.	Balance on Deposit.	Total.
Current expenses	<b></b>			- \$192 0				1	
Pinding -				791 1	1886-7	47	37	24	10 13
urchase of periodicals				- 1,046 5	N QQ7_Q	וות ו	1	82	14 14
urchase of books				´500 (	1888-9	40	0	100 155	18
					1889-90	20	0	100	10
				\$2,469 <b>6</b>	Total remaining on deposit			361	
, m		F 4			10th foliaming on deposition				
1. State Appropriation for Library, \$10, 1885.]	),000.	[A]	pprove	d, Marc	13. The Cost of the Ne	w Chemical La	BORATORY	Building	to Jun
		AT	mount	Amount	-	30, 1890.			
		Appe	ortioned	Charged					
		Don	each	to each	Advertising for bids for the con-	struction of the Che	mical Labor	atory buildii	ng <b>\$2</b> 73
		Dep	artment.	Debartmen	Labor, etc., clearing the site				279
		<del>-  </del> -			n lerical work, conving contract				
reek	<del>-</del> -		\$88 72	<b>\$60</b> 5	Salary of Inspector	<del></del>			1,140
inglish			600 00						
fechanics			500 00	365 1	Architect's commission	of the functions	d fittings fo	r the Chamic	1,000
griculture			265 72	256 0	Advertising for the construction	i of the ulthithire an	O NIJUNYS IU	т вие опени	324.1
hilosophy	- <b></b>	_   1	,500 00	1,575 9	ranotatory numing				
atin			100 00	119 4	Total				\$18,240
hysics			,000 00	267 7	10001				4
eology and Natural History	<b></b> -		300 00	1,143 6	m	·11 1 #=^ ^^			
olitical Economy	·	) _	796 00	547 3	The cost when finished	will be \$70,000.			
nited States History			,200 00	808 7					
erman			360 00	321 0			***		
hemistry			250 00	299 8 312 3	14. Cost of Water Recei	VED FROM THE AI	ameda W	ATER COMI	PANY, FO
vil Engineering			300 00 600 00	917 9	mara Transi	l Year Ending J	TINE 30, 13	890.	
athematics			75 00	168 0 61 3	1112 1 1501	B ABILL BILDING O	01.12 00, 1	0000	
rench			100 00	70.4	13 47 4000				<b>9</b> 5 /
lineralogy			70 00	58.06	For the month of June, 1889				\$5 9
Inseum			225 00	50 W	For the month of September, 18 For the month of October, 1889.	89			<b>2</b> 8
ilitary			31 75	25 6	For the month of October, 1889.	90 and January 190	`		67
ibrarian			200 00	2.066.6	For the months of December, 18 For the month of February, 189	os, and January, 100	·	·	18
or periodicals			438 00	_,000 0	For the month of March, 1890	/			28
ustom dues, Consuls' certificates, etc.				41 49	For the month of March, 1000.				
nsurance				60 4					<b>\$162</b>
ostage				3 6					
oxes, cases, and packing				65 35	15	University Con	TAGES.		
ommission				66 4	10.	CHIVEHOIII CO.	11101101		
inding				417 6		A			<b>907 00</b> 0
reight				337 5	Total cost of building cottages (	October, 1874)			\$21,220
xchange	·r	{		1 2	(Dotal annount massing & from non	4 from November 1	874 to Tuna	20 1800	<b>୧</b> 92 785
xpressage				10 0	Total amount received from ren	t, from November, 1	074, to June 20 1800	30, 1030	6,694
		\$10	.000 19	\$10,000 0	Total cost of repairs, from Nove	ember, 1874, to June	0, 100		0,004
		1	,000 -0					;	\$17,091
2. STATEMENT FROM DIPLOMA FUND BOOD DEPOSITS MADE TO JUNE 30	к, S 0, 18	HOWIN	ig Nu	MBER OF	Showing the interest or and eight months, to be a per annum.	the investment t the rate of 4 pe	(\$27,226 r cent per	06) for fift annum—	teen yea \$1,090
1886-7.	18	87–8.	1888-9.	1889-90.	,	16. PALMER HO	USE.		
ontombor	, [	100	100	10	In purchasing the Pal	mer tract. \$10.00	0 was con	sidered th	e value
eptember 8	6	102 16	102 26	12	one portion of that tract,	namely the De	lmar Hon	se and lot	On +1
ovember	2	4	20	. }					
	3	5	4		basis, and considering the	expenditure as	an investr	nent, 1 giv	e the p
nuary.	2	3	$\overset{\bullet}{2}$		centage of income on the				-
	2	ĭ	3						
arch	2	i	ĭ		Cost of Palmer House and lot.			·	\$10,000
pril		4 .		.) 7	) <u>E</u> 1				
ay		ō [		_  ;	Total amount of rent from Jun	e 30, 1888, to June 30	, 1890		\$1,500
ine		Õ.		-1 2	Total cost of repairs for the san	ie period			465
				<b>_</b>	1				
Totals 10	18	133	140	18	<b>N</b>				\$1,034

750 00

4,000 00

Showing the in	iterest on the	investment to	o be a	at the	rate of	5.17	pe
cent per annum.							_

17	INSURANCE	ΔT	RERKELEY

### NORTH HALL.

On the frame building and foundations to same, known as the North Hall	\$80,000
Contents	

1,000 4,500

11,800

85,000 0

25,000 25,000 (

10,000

30,000 0

2,500 0 31,000 0

39,500

25,000

7,500

to be valued at to exceed cost)
On musical instruments and military accouterments
On the contents of the printing office
On instruments and implements for the teaching of physics, engineering
apparatus, and other apparatus necessary for the purposes of the Uni-
versity, fixtures and furniture, and all other contents not enumerated
above, while contained in aforesaid building, known as the North Hall

On portraits and photographs (in event of loss, no one portrait or photograph

### SOUTH HALL.

On the brick, stone	and iron building, and foundations to same, known as the
South Hall	~

### Contents.

Un the contents of the rooms of the Museum of Geology, Ethnology, Zoology,
and Paleontology
On the contents of the rooms of the Mineralogical Museum
On the contents of the Geological, Chemical, Physical, and Agricultural Lect-
ure Rooms and Laboratories, fixtures and furniture, engine and boiler,
dynamo and electric motor, and all other contents not enumerated above,
while contained in aforesaid building, known as the South Hall
··

### BACON ART AND LIBRARY BUILDING.

On the brick,	stone, and i	ron building,	and foundation	s to same, kn	own as the
Bacon Art	and Library	building		·	

### Contents.

On furniture and fixtures
On library of printed books
On paintings, busts, and bronzes, statuary and other works of art (in event of
loss, no one painting to be valued at to exceed \$10,000), while contained in
the aforesaid building, known as the Bacon Art and Library building

### MECHANICAL ART COLLEGE BUILDING.

On the brick,	stone, and iron building, and foundations to same, known as the	
Mechanica	Art College building	

### Contents.

On fixed and movable machinery, tools, and other appliances and apparatus
used for the purposes of the University, engines and boilers, fixtures and
furniture, and all other contents, while contained in the aforesaid building,
known as the Mechanical Art College building

### LABORATORY OF THE COLLEGE OF MINES.

On the frame building and foundat	tions to same	, and bridgeway	connected
thereto, known as the Laborator	y of the Colle	ge of Mines	

### LABORATORY OF THE COLLEGE OF MECHANICS.

On the frame building and foundations to same, known as the Laboratory of the College of Mechanics.
the College of Mechanics

On fixed and movable machinery and apparatus necessary for the purposes of the University, engines, and all other contents, while contained in the aforesaid building, known as the Laboratory of the College of Mechanics...

On the frame building and f	oundations to same,	known as the	3ymnasium
-----------------------------	---------------------	--------------	-----------

### Contents.

the Gymnasium	\$1,500 00
UNITED STATES AGRICULTURAL EXPERIMENT STATION BUILDING.	
On the frame building and foundations to same, known as the United States	7 500 00

### Contents.

On apparatus and appliances necessary for the purposes of the University,	
furnaces, fixtures and furniture, and all other contents, while contained in	
the aforesaid building, known as the United States Agricultural Experi-	
ment Station building	

On the apparatus and all other contents of the aforesaid building, known as

### STUDENTS' OBSERVATORY BUILDING.

On the frame buildings and foundations to same, known as the Students' Ob-	
servatory building	1,500 00

### Contents.

On apparatus, instruments, and appliances necessary for the purposes	of the
University, and all other contents, while contained in the aforesaid	build-
ing, known as the Students' Observatory building	

### COTTAGES.

On eight cottages, an equal amount on each	10,000 00

### STABLE BUILDING.

On the frame stable building	1,000 00
------------------------------	----------

### Contents.

On four horses (in event of loss, no one horse to be valued at to exceed \$300).	800 00
On harness and stable implements, while contained in the aforesaid stable building	80 00

8		•
		-
Total	\$432,330 00	)

All of the above described buildings situate on the University grounds, Berkeley, Alameda County, California.

The policies of insurance, covering the foregoing items, will expire February 20, 1893. Total premium, \$4,323 30; rate, 1 per cent for three years.

### 18. Insurance on Property at Mount Hamilton.

21,200 0 3,000 0 2,000 0	On out building No. 5 On frame kitchen On furniture in brick dwelling On furniture in house No. 1 On kitchen furniture On library fixtures and books	35,000 00 4,500 00 2,000 00 400 00 2,000 00 750 00 50 00 100 00 756 00 2,500 00 400 00 200 00 1,500 00
700 (	On chronometer, books, and cases	1,550 00 10,812 50
700 0	Total	\$72,562 50

ANNUAL REPORT OF THE		1
\$15,000 00—Three years from February 17, 1888, at 1 per cent	20 100 75 25 378 80 22 64	00 00 20 75 60 00 00 00 00 00 00 00 00 00 00 00 00
		1
19. OTHER INSURANCE.		
Insurance on Palmer House.		l
Buildings \$3,000 at three years from September 9, 1888; \$3,000 at three years from Jun 19, 1890; total, \$6,000, at 1.20 per cent; premium, \$72 00.	. \$6,000 ie •	00
Insurance on Toland Medical College.		I
Building	\$2,500	00
Insurance on Ashburner Clock.		
Clock and bell	\$2,000	00
Insurance on Agricultural Experiment Stations.		ı
Paso Robles Station—buildings.  Three years from November 15, 1889, at 1.20 per cent; premium, \$21 60.	\$1,800	00
Tulare Station—buildings. One year from January 15, 1890, at .60 per cent; premium, \$9 00.	\$1,500	00
20. LAND DEPARTMENT.		
Receipts for the Fiscal Year ending June 30, 1890.		1
From sales of the grant of 150,000 acres	\$28,214 4,034 22 1,360	34 59
land From fees for applications, certificates of purchase, and patents From fees due Secretary of State for affixing seal to patents	1,063 244	00
Total cash receipts	\$34,939	49
Number acres for which certificates of purchase have been issued during the		_1
fiscal year ending June 30, 1890	929. 18,068.	
Number acres patented, double minimum, during the fiscal year ending June 30, 1890	1,765.	.32
Account with the Congressional Land Grant of One Hundred a Thousand Acres.	nd Fif	ty
Whole number of acres patented, minimum, to June 30, 1889	61,448. 44,945.	
Total number acres patented to June 30, 1889.  Whole number acres patented, minimum, from June 30, 1889, to	106,393.	89
June 30, 1890.       18,068.77         Whole number acres patented, double minimum, from June 30, 1889, to June 30, 1890.       1,765.82	10 094	
Total number acres patented to June 30, 1890	19,834.0	1

ANNUAL REPORT OF THE

Whole number acres bearing interest. Whole number acres, full paid, awaiting patents. Whole number acres, full paid, patent fees delinquent. Approvals, certificates of purchase not issued. Sold and patented by State Register Remaining unsold (abandoned)	11,447.04 4,929.51 560.00 900.00	
Sold and patented by State Register Remaining unsold (abandoned)	204.78 5,658.97	23,691.31
Total number of acres listed to the grant of 150,000 acres		149,919.29
Selections awaiting action at Washington		299.48

21. Reports of the University Auditor, Submitted to the Board by THE FINANCE COMMITTEE.

San Francisco, March 21, 1890.

A. S. Hallide, Esq., Chairman, Finance Committee of the University of California:

Sir: At the request of the Finance Committee, I have audited the books and accounts of the University of California, in Berkeley, from February, 1889, to February, 1890, inclusive (February, 1889, being the period to which my previous examinations were made). The examination embraced all books of the Land Department, Agricultural Experiment Stations, and the books for the conducting of the business of the Board of Regents of the University of California. All bills and vouchers were gone over in detail, and checked through requisition, order, minutes, voucher, draft on Treasurer, journal and cash books into the ledger ("c").

I find proper bills and vouchers for all payments made on file in the office of the Secretary—the bills and requisitions properly signed by the head of the department making the requisition, Secretary, President, Chairman of the Committee, order of purchase by Finance Committee, approval by Auditing Committee, and approval by the Board of Regents, in session, as shown by the minutes of their meetings.

Additions were gone over in all of the books (three sets), and I find all to be correct, and neatly and properly kept. At my suggestion, January 1, 1889, books of account were opened in the Land Department, consisting (besides those in use) of journal, cash, and ledger, in which all parties were charged with land purchased, thus showing in concise form the condition of land matters—the purchasers and what is due the University (subject to correction of errors and omissions by former Land Agents); these books have and are answering the purpose they were intended for.

The books opened and written up by me, January 1, 1890, for the conducting of the business of the Regents of the University of California, have proved complete in detail, simple in form, and correct as to the expense of each department.

I wish respectfully to call your attention to the insufficient room allowed for the offices of the Secretary, and to the inadequate safe or vaultroom for the protection of books and papers. A fire in the building (South Hall) might result in the irreparable loss of valuable books. papers, and documents.

Herewith please find balance sheets to March 1, 1890, of the Land Department, the Agricultural Experiment Stations, and the general

books of accounts of the Regents of the University of California. All of which are respectfully submitted.

JOHN J. HERR.

Auditor of Finance Committee of the Regents of the University of Cali fornia.

A. S. Hallidie, Esq., Chairman Finance Committee of the Board of tions' ledgers, for June, 1890. Regents of the University of California:

Sir: I have examined and audited the books of the Regents of the 30, 1890. University of California, consisting of the books of the "Land Department," the "Agricultural Experiment Stations," and the "General Books of Account," for the months of March and April, 1890, and find them

Vouchers properly examined, approved, and audited for all payments,

are on file in the Secretary's office.

Have also verified the Treasurer's report, the pass books of the savings banks (at the banks), and find the balances in the hands of Treasurer and in the banks, as shown on general ledger.

Herewith please find trial balance of general ledger to May 1, 1890.

Respectfully submitted.

JOHN J. HERR.

Auditor.

Ordered spread on the minutes.

University of California, Berkeley, June 11, 1890.

A. S. Hallide, Esq., Chairman of the Finance Committee of the Regents of the University of California:

SIR: I have examined and audited the books and accounts of the Regents of the University of California, for May, 1890, and find them to be correct.

Have verified the balance in the hands of the Treasurer of the Uni-

versity.

During the month no change has been made (from April, 1890) in the accounts with the various savings banks, the balances being the same as then verified.

Herewith find trial balance from the general ledger for May, 1890.

Respectfully submitted.

JOHN J. HERR.

Auditor.

University of California, Berkeley, July 10, 1890.

A. S. Hallide, Esq., Chairman of the Finance Committee of the University of California:

Sir: I have examined and audited the books and accounts of the Regents of the University of California, for June, 1890, and find them correct.

Vouchers, properly signed, audited, and receipted, are on file in the Secretary's office for all payments.

Have examined and verified balances in the various savings banks with which the Regents have deposited funds, and find them to be as shown in the general ledger. Herewith please find trial balances, taken from the General, Land Department, and Agricultural Experiment Sta-

Also a statement of the "Revenue account" for the year ending June

Respectfully submitted.

JOHN J. HERR, Auditor.

### 22. THE UNIVERSITY LIBRARY.

In this year there has been a large increase in the number of students making use of the library's resources for information and study. This increase is due not so much to the greater number of students attending the University than formerly, but to certain changes in methods of instruction, especially in the Junior and Senior Classes of the literary course, which require more library work.

1890.		А. М.		. Р. М.				Average.
1990.	10.	11.	12.	1:30.	2:30.	3:30.	4:30.	Average.
AprilMay	55.6 62	69.6 70.4	44.9 45.5	78.7 74.5	70.1 69.0	64.4 63.7	39.0 43.0	60.3 61.1
Term average								60.7

The nearest approach to this number was in 1888, when the term average was 48.2.

### Growth.

In addition to pamphlets and maps, there are at this date (June 30) forty-one thousand three hundred and eighteen volumes in the library. For the past year the accessions were as follows:

(a) By purchase (Reese Fund)	984 volumes. 23 volumes. 1 volume.
(b) By binding of periodicals (General Fund)	1,008 volumes. 321 volumes. 876 volumes.
Total Pamphlets received by gift.	2,205 volumes. 3,636 numbers.

While the accessions have excelled those of 1888-89 by some three hundred volumes, they still fall below the average annual increase of the last ten years, and it is with earnest solicitude that the Faculties of instruction at Berkeley look forward to the time when generous appropriations from the General Fund of the University may enable the library to keep more fully abreast with the times.

The character of our purchases is the same as in the past; of a few only can we make mention as being of special interest: Preussische meister, Denkmäler, des classischen Altertums; 'Ast, Lexicon Platon trophies gained by athletic competitions and the like. cum (rare); Du Cange, Glissarium mediæ et infimæ Latinitatis; Dant (Botany complete); Alexander Pope's Works, edited by Elwin and Couroughly damp-proof, and thus much space be utilized. thope; Gladstone's Studies on Homer; and the Mermaid series of Bes Plays of the Older Dramatists.

Among noteworthy accessions by gift, are the following:

From Robert N. Cust, of London, a collection of his writings, in eight volumes.

de la Provincia de Californias—the reprint (itself very scarce).

From the St. Petersburg Society of Naturalists, a set of its transaction tions.

From Walter H. Fraser, of the graduating class (1890), twenty vol umes—all very useful.

From Prof. E. S. Holden, and from the Lick Observatory, a large

number of pamphlets, relating in great part to meteorology.

From Miss M. W. Shinn, of the class of 1880, a large collection pamphlets, which includes some rare and privately printed Californiana and an extensive series of contemporary periodicals that will prove very interesting to students of journalism.

From President Horace Davis, besides numerous duplicates, one hun dred and forty-eight bound volumes, and six hundred and sixty-nine pamphlets, mostly of interest to the student of United States history and politics. Through his kind offices, we have secured gifts which w credit to original donors.

Miscellaneous Gifts.—From Joseph Rosenberg, a framed photograph of Michael Reese.

From the Class of 1893, its class pin.

There has been placed in the library an elegant emblematic silver trophy for the field day relay race—a gift to the students from Presi dent Davis.

### New Exchanges.

Exchange of publications has been begun this year with the Univisität Jena, Universidad de Granada, Universidad de Zaragoza, and the Université Libre de Bruxelles.

### Notes of Work.

Library Bulletin No. 11, "A Guide to the Literature of Æsthetics," prepared by Professors C. M. Gayley and F. N. Scott (of Ann Arbor) has appeared.

The Contents-Index of the Library, a volume of five hundred and nineteen pages, has been printed, and in this form it has proved a great assistance to students.

Library Bulletin No. 1, a combined list of periodical literature preserved in prominent libraries of this coast, has been out of print for some time. It is hoped that in 1891 a new and greatly enlarged edition of this useful guide may be issued.

Considerable table space for students has been gained in the readingroom by the arranging of current files of the scientific, technical, historical, philological, and philosophical periodicals in upright wall cases.

Jahrbücher (63 vols.); Gregorius Nyssenus; Opera omnia, 1615; Bulhandsome oak case has been provided for the reception and exhibition of

Very soon additional bookcases will be required, and the upper gallery Gesellschaft, Jahrbuch; Dadenberg, Handwörterbuch der Chemie; Borlin the rotunda should be fully furnished. Later on, the basement of the fils, Architecture antique (photographs); Biologia Centrali-American Bacon building should be made, by means of cement floors, etc., thor-

### Art Gallery.

The number of adult visitors to the Art Gallery during 1889-90 was two thousand six hundred and thirty-one persons; the total number of From Hon. John T. Doyle, a copy of the Reglamento para el Gobiern visitors since 1882 being thirty thousand six hundred and forty-seven persons. For several years no additions have been made to our collection of paintings. It is to be hoped that steps may be taken to induce every California artist of note to present to the Art Gallery at least one specimen of his handiwork. It would thus become truly representative of local art, present and past, and visitors to the gallery—a large proportion of whom are tourists from the East and from Europe—would be numbered by thousands instead of hundreds. As a financial venture we believe it would prove to the artists themselves very profitable. List of donations to the library will be found in the Appendix.

23. Officers of the University Cadets, Lieutenant G. F. E. Harrison

IN COMMAND. On June 19, 1890, Brigadier-General R. H. Orton, Adjutant-General of the State of California, by order of the Commander-in-Chief,

Norman R. Lang, Colonel, with rank from June 25, 1890. Henry G. Parker, Lieutenant-Colonel, with rank from June 25, 1890.
Henry F. Bailey, Major, with rank from June 25, 1890.
Henry F. Bailey, Major, with rank from June 25, 1890.
Edward H. Stearns, Captain, with rank from June 25, 1890.
David G. Jones, Captain, with rank from June 25, 1890.
Fred. W. McNear, Captain, with rank from June 25, 1890.
William S. Smith, Captain, with rank from June 25, 1890.
Guy H. Stokes, First Lieutenant, with rank from June 25, 1890.
Daviel Stoney, First Lieutenant, with rank from June 25, 1890. Donzel Stoney, First Lieutenant, with rank from June 25, 1890. Richard F. Dean, First Lieutenant, with rank from June 25, 1890. Edward C. Hill, First Lieutenant, with rank from June 25, 1890. Leslie R. Hewitt, First Lieutenant, with rank from June 25, 1890. David C. Demarest, First Lieutenant, with rank from June 25, 1890. Samuel S. Peck, Second Lieutenant, with rank from June 25, 1890. Arthur F. Mack, Second Lieutenant, with rank from June 25, 1890. Jabez A. Jenkins, Second Lieutenant, with rank from June 25, 1890. Orrin K. McMurray, Second Lieutenant, with rank from June 25, 1890.

announced the following appointments, viz.:

### 24. University Site.

The University site, embracing  $245\frac{78}{100}$  acres, is now in reasonably good condition, as much so as is possible with the present supply of

The general appearance during the months of July, August, September, and October, is somewhat offensive to the eye; during the remainder of the year it is certainly very beautiful.

### Fences.

The picket fence needs repainting; with this exception all the fences are rable portion of the creek bed. in good order.

It is deemed advisable to fence these tracts, and make separate fields. The broken culvert crossing Oxford Street, at the west end of the so that they can be pastured, thus saving the necessity of burning off the rounds, has been repaired. grass during the summer.

open to all comers.

Roads.

able character of the University macadam.

It is believed that the quarry should be opened for further use. gravel obtained from the bed of Strawberry Creek is of a most excellen

kind, and wears well.

The short road between the Bacon Art and Library building and the Audubon-Street bridge, has been subjected to very heavy travel for two years, and is still in good condition. Our macadamized roads wouldnd now all the forests are in a clean and healthy condition. last for many years if they could be sprinkled during the dry season Allston Way will be graded and macadamized by the first of October 1890.

### Sidewalks.

The gravel sidewalks are in good condition, while the old plank walk are rapidly breaking up. The proposed walks of stone, concrete, or bituminous rock, will be built during the fall of the current year.

A new walk will be needed along the south side of the gravel roadsummers. from the Library building to Audubon-Street bridge.

Ball and Drill Grounds.

the Campus, have been made, but none of them have proved satisfact be green all the year.

The Board has approved of the proposition to level the Campus, but to the plans.

Bridges.

The two new bridges, for which appropriations have been made, har not been built.

The water in Strawberry Creek is still abundant, making it expensive to lay brick foundations. It is believed that it will be more economics to wait until the water of the creek drains off.

### Strawberry Creek.

We have now twelve thousand one hundred and twenty-one feet of During the winter of 1889 and 1890, the rainfall was very heavy, and fencing—three thousand five hundred and nineteen feet of picket, and the debris from the mountains was carried down into the bed of the eight thousand six hundred and two feet of wire fence, built in 1886 reek in the lower grounds, making it necessary to clean out a consid-

The pollution arising from the overflow of manure from the dairies in The tracts of land known as the Palmer and Bailey tracts, embracin strawberry Valley has caused considerable inconvenience. The largest 48,78 acres, are not fenced; hence, there is considerable difficulty in the hairy of that section has been removed, and we may hope to escape a

similar affliction during the coming winter.

We have found it impossible to find stone of the proper size and At present we have no practical control over these lands, as they arguality for the construction of dams, and will be compelled to use broken rock and cement. This will add to the expense, as this kind of work cannot be well done for less than \$12 per cubic yard.

The water in the creek will probably continue to interfere with this The macadamized roads are still in good condition, showing the value work during the entire summer, thereby making it more expensive than we expected. It is therefore deemed expedient to delay the building of

dams until the water in the creek drains off.

The oak trees on the north side of the grounds have been trimmed,

About eighty acres of steep hillside land should be covered with trees. The young native oaks have been cared for, and in time will give us good forests. In the meantime, the old oaks will gradually decay.

### Shrubbery.

The rooted shrubbery is doing well; nothing, however, can be added to what we have without water to keep the plants alive for a few

Lawns.

We have now fifteen acres of perennial grass, which looks exceedingly well for eight months of the year, and very dreary for the remain-Several surveys of that portion of the grounds, commonly known aling four months. With a sufficient supply of water these lawns would

Sewers.

The sewers are doing their work well. A new sewer of about six nothing will be done until all the parties interested shall have agreed a hundred and thirty feet in length will be needed to connect the new Chemical Laboratory with the main sewer. There are three cesspools for the use of the cottages on Strawberry Creek. These cottages cannot be easily connected with the main sewer.

# Water Supply.

Our water supply is still inadequate to the wants of the University. During the past year we have used the water of the Alameda Water Company only during the time that the water of Strawberry Creek was polluted by the mountain dairy.

Our supply has come from the tunnel and the old reservoir.

We use only about one half of the water that flows into the old rese voir, the remainder flowing over.

The reason is obvious, and is found in the fact that the delivery pip are too small to carry the whole amount of water.

About fifty wells have been sunk during the present summer, with varying depth of from fifty to seventy-five feet.

Thus far these wells have developed but little water.

It is deemed advisable to sink one or two deep wells—artesian the lower end of the grounds.

One reservoir at least is needed.

It is now quite certain that the Alameda Water Company cannot supply us with an amount of water that would be practically useful the grounds.

### Buildings.

The University buildings have been put in good repair, and are being painted. All of them will be painted or oiled by the first of September

The new Chemical Laboratory is being rapidly and well built. will be finished about the first of October, 1890.

Amount of material used in the construction of new Chemical Labora tory, Berkeley, up to June 23, 1890:

```
1,250 linear feet terracotta.
    550 linear feet granite.
  2.500 linear feet flue lining.
  2,200 linear feet sewer pipe.
2,500 linear feet lead pipe.
  3,200 linear feet gas pipe.
2,800 linear feet galvanized iron pipe.
1,050 barrels of lime.
    400 barrels of cement.
    200 M. lumber.
  1,150 M. brick.
960 tons sand and gravel.
 12,500 square feet slate roof (California slate).
 11,200 square feet tin roof.
  3,300 square feet copper gutters, valleys, flushings, etc.
140,000 laths.
 8,000 pounds rolled iron beams, bonds, anchors, etc.
    500 linear feet speaking tube.
  5,000 yards excavating and filling,
 11,300 square feet cement floor.
 7,500 square feet plastering.
2,295 days' labor to date.
  4,585 tons of material used.
```

The following is a list of buildings much needed:

1. A dressing house near the cinder track.

The building covers an area of 23,256 feet (surface feet).

- 2. A shed for wagons and hay.
- 3. An administration building.
- 4. A museum.

### APPENDIX.

The following matters will be found in the addenda to the report:

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    Land Agent's report.
    Donations to the library.
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- 3. Bill for the more complete endowment and support of the colleges for the benefit agriculture and the mechanic arts, etc.
- 4. Geological Survey material.
  5. Lick Astronomical Department.
- 6. Supreme Court decision, Aurelia Pfeiffer vs. The Regents of the University of Cal

The following statements will be found in the Financial Appendix:

- 1. Statement of receipts and disbursements. Trial balance for the month of June, 1890.

- Statement of bonds and mortgages.
  Account with the University Fund 1-cent tax.
  Condition of University Medal Fund.
  Condition of Edward Tompkins Endowment Fund.
- 7. Salaries.
- Baisres.
   Fuel.
   Equipment and repairs.
   Advertising and printing.
   Telegraphing and expressage.
   Stationery.
   Postage.
   Land administration.
   Incidental expenses.

- 15. Incidental expenses.
- 16. College celebrations.
- 17. Official and lecturing expenses.
- 18. Cottage repairs. 19. Insurance.
- Insurance.
   Water supply.
   Agricultural Experiment Stations.
   College of Agriculture.
   College of Chemistry.
   College of Mechanics.

- 26. College of Mines.
- 27. Department of Lick Observatory.
- 28. Military Department.
  29. Department of Mineralogy.
  30. Department of Physics.
- 31. Department of Physical Culture.
- 32. Library. 33. Reese Library.
- 34. German Library.
- Museum.
- 36. University site improvements.
- 37. University Printing Office.

Respectfully submitted.

J. H. C. BONTÉ, Secretary.

5,921.67

# CONGRESSIONAL LAND GRANT OF 150,000 ACRES—REPOR OF THE LAND AGENT.

To the honorable the Board of Regents of the University of California: GENTLEMEN: I have the honor to submit the report of the Land Ages for the year ending June 30, 1890:

### RECEIPTS FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

,	
From sales of the grant of 150,000 acres  From interest on deferred payments due the grant of 150,000 acres  From interest on deferred payments of forfeited Seminary lands  From collections of \$1 25 per acre due the United States on double minimum land  From fees for applications, certificates of purchase, and patents	\$28,214 ( 4,034 ( 22 ( 1,360 ( 1,063 (
From fees due Secretary of State for affixing seal to patents	244 (
Total cash receipts	\$34,939
Number acres for which certificates of purchase have been issued during the fiscal year ending June 30, 1890	929.
Number acres patented, minimum, during the uscal year ending June 30, 1890.	18,068.
Number acres patented, double minimum, during the fiscal year ending June 30, 1890	1,765.
ACCOUNT WITH THE CONGRESSIONAL LAND GRANT OF 150,000	Acres.
Whole number of acres patented, minimum, to June 30, 1889	61,448.
Whole number of acres patented, double minimum, to June 30, 1889	44,945.0
Total number acres patented to June 30, 1889.  Whole number acres patented, minimum, from June 30, 1889, to June 30, 1890.  Whole number acres patented, double minimum, from June 30, 1889, to June	106,393.8 18,068.9
30, 1890	1,765.
Total number acres patented to June 30, 1890.  Whole number acres bearing interest.  Whole number acres, full paid, awaiting patents.  Whole number acres, full paid, patent fees delinquent.	126,227.9 11,447.0 4,920.9 560.0
Approvals, certificate of purchase not issued	900.0
Sold and patented by State Register	204.1 5,658.9
Total number acres listed to the grant of 150,000 acres	149,919.2
Selections awaiting action at Washington =	299.4
Total amount of principal outstanding of the grant of 150,000 acres  Total amount of principal outstanding of forfeited Seminary land	\$42,484 5 320 0
Total	\$42,804
In hands of counsel J. B. Mhoon for collection (delinquent)	13,906
Balance not yet delinquent	\$28,897

### SEMINARY AND PUBLIC BUILDING LAND GRANTS.

The records of the Land Office of the University show the following number of acres listed against the Seminary and Public Building Land Grants:

Seminary Lands.	
Marysville district. Sacramento district (536.09 acres sold, not listed). Visalia district (320 acres sold, not listed). Humboldt district (2,000 acres sold, not listed).	25,945.18 400.00 640.00 6,602.36
Humboldt district (480 acres sord, not listed)  Humboldt district (480 acres forfeited to the Regents, not listed).  San Francisco district (1,924.66 acres sold, not listed).	1,724.51
Total listedSold, but not listed	40,432.05 5,260.75
_	45,692.80

Total number acres of grant, 46,080: leaving yet to be applied for, 387.20 acres

10tal number acres of grant, 40,000, leaving yet to be applied for, 501.20 acres.	
Public Building Lands.	
Humboldt district Visalia district Stockton district (640.78 acres sold, not listed) San Francisco district (320 acres sold, not listed) Marysville district	1,285.80 1,294.24 1,582.85 none. 800.00
Total listed	4,960.89 960.78

Total number acres of grant, 6.400; leaving yet to be applied for, 478.33 acres.

Statement of Forfeited Seminary Land patents issued by the University of California from April 29, 1872, to June 30, 1890:

·				
Date of Patent.	Number of Patent.	Number of Location.	Name of Patentee.	Area.
1880—Aug. 23. 1882—Sept. 13. 1885—Jan. 27. 1885—Aug. 28. 1886—April 28. 1887—June 29. 1889—Sept. 17.	300 391 419 458 496	3 10 11 13 4 8	Francis L. Whitney Robert Gardner Henry Flock George Champlin Charles W. Pierce Mrs. E. J. Atkinson James H. Wilson and Warren Moore, assignees of Andrew Corbett Total	320 320 160 80 56.07 320 160

STATEMENT OF DELINQUENT PURCHASERS OF LAND UNDER THE CONGRESSIONAL GRANT OF 150,000 ACRES.

	Principal,	Delin	Date when Delinquent	Υe	ers Inte	rest is D	Years Interest is Delinquent.	Amount of Interest.
1611 Jeremiah Casey 1418 Matthew Ward, assignee of Michael Joyce		May 13	2, 1888. 3, 1887	1886, 1889.	1887, 138	1888, 1889, 1890	1890	
	888		1, 1890.	1886,		86.8 86.8	1890	328
Samuel D. Paxton	88			188 88 88 88 88			1890	
	38			8 8	_	7, 1888.	1889, 1890	
gnee of G.	88	May	2, 1888-	188	1886, 1887,	7, 1888 88,	1888, 1889, 1890	
James Hopkins, as	38			1887,	_	9,1890.		
	88			86 % 86 %	0681			
	38			8	068			
666 Kobert K. Harns. 1672 William Clark	88		27, 1888 6 1888	28 28 28 28 28 28 28 28 28 28 28 28 28 2	890	1 1887 1	0001 0001 000	
	88			1889	890,1	, 1001,	1890	
1716 R. G. Enbank	88			1887,	1888, 1889,	9, 1890		
<u> </u>	38		1885	1886,1	887, 188 887, 188		1890	
	8	May	7, 1888		1882, 1888,	8, 1889, 1890	1890	
1004 Henry B. Old 710 Daniel McGanny, assignee of John Brady	88	Sept.	1889	20 20 20 20 20 20 20 20 20 20 20 20 20 2		7 1888	1889 1890	
J. H. and Duncan	3	Mar.	1, 1890	1886,	1881, 1888,	8, 1889,	, 1889, 1890	
J. H. and Duncan McNee, assignees of Thomas W.	88	Mar.	1, 1890	1886		8, 1889,	1890	
1	38	July 1	1, 1880 3, 1889	286	1888, 1889) 1890)	8, 1890 -		
James	8	July	3, 1889	1889	068		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1302 James Lynch 1308 Tames Truch	88	July	3, 1889-					
James	38	July	- 688 - 688 - 688	8	200			
James	88	July	3, 1889.	88 88	068		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	38	July April	1,1889-	26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 26 2	986			
-	8	April	1888	1889	890			
1745 James K. Lynch	2 2	April 1 Mar	1883	1886, 1 1889, 1	06			16 80
1770 James K. Lynch	24	Mar. 1	1890	1889, 1	06			17 34
1771 James K. Lynch	22	Mar. 1 May 26	1890	1889	960			16 80 58 17
<u> </u>		4		·	<b>(</b>	1		3
1788 A. A.	800 00	Mar. 1	1, 1890	1890		-		88
7 100 A. A. Wilceler F 1790 N. K. Masten.	160 00	Mar. 1	1, 1890   1890	1890				11 20
Totals	\$13,906 73	1					: : : : : : : : : : : : : : : : : : : :	\$2,848 56

ANNUAL REPORT OF THE

STATEMENT OF LANDS LISTED AND CHARGED AGAINST THE AGRICULTURA GRANT OF 150,000 ACRES, TO JUNE 30, 1890.

DISTRICTS.	Number of Lists.	Number of Acres.
San Francisco	1, Minimum	2,085.82
San Francisco	2, Minimum	1,582.73
an Francisco	3, Minimum	3,189.68
an Francisco	4. Minimum	2,198.70
an Francisco	5, Minimum	3,680.37
an Francisco	6. Minimum	1,041.05
an Francisco	7, Minimum	7,082.18
an Francisco	8, Minimum	400.00
an Francisco	9, Minimum	160.00
an Francisco	10, Minimum	3,367.64
an Francisco	11, Minimum	719.88
an Francisco	12, Minimum	416.71
an Francisco	13, Minimum	1,201.87
an Francisco	14, Minimum	117.38
an Francisco	15, Minimum	360.00
an Francisco	1, Double Minimum	9,628.64
an Francisco	2, Double Minimum 3, Double Minimum	1,466.20 226.73
an Francisco		3,094.61
an Francisco	4, Double Minimum	1,797.25
an Francisco	6, Double Minimum	4,214.62
San Francisco	7, Double Minimum	240.00
San Francisco	8, Double Minimum	80.00
San Francisco	9, Double Minimum	2.225.98
an Francisco		120.00
an Francisco	13. Double Minimum	1,906.35
an Francisco	14A, Double Minimum 14B, Double Minimum	44.17
an Francisco	14B, Double Minimum	120.00
an Francisco	15C, Minimum	860.82
	·	53,62
Sacramento	2, Minimum	160.00
Bacramento	I 3. Minimum I	<b>560.0</b> 0
Sacramento	4. MINIMUM	680.00
Sacramento	l D. Minimum	1,040.00
acramento	/, Minimum	40.00
Sacramento	8, Minimum	160.00
Sacramento	3, Double Minimum	2,479.60 1,000.46
Sacramento Sacramento	5, Double Minimum	240.00
Bacramento	8, Double Minimum	80.00
Bacramento	9, Double Minimum	40.00
Bacramento	10, Double Minimum	40.00
Julia Monto Liliana	20, Dodolo Minimum	6,52
Los Angeles	1, Minimum	2,081.49
Los Angeles	2. Minimum	160.00
Los Angeles	3, Minimum	80.00
Los Angeles	4, Minimum	323.34
Los Angeles	5, Minimum	160.00
Los Angeles	6, Minimum	120.00
Los Angeles	7, Minimum	1,626.61
Los Angeles	8. Minimum	1,459.33
Los Angeles	1, Double Minimum	840.00
Los Angeles	3. Double Minimum	1,001.81
Los Angeles	3, Double Minimum	520.00
Los Angeles	4, Double Minimum	171.54
os Angeles	9C, Double Minimum	360.00
Stackton	1 Minimum	2 320 00
Stockton Stockton	1, Minimum 2, Minimum	2,320.00 1,500.18
Stockton	3, Minimum	4,545.89
Stockton	4, Minimum	440.00
Stockton		160.00
Stockton	6, Minimum	80.00
Stockton Stockton	7, Minimum	40.00
~~~~ <del>~~</del> *******************************	4, Double Minimum	324,23
Stockton		
stockton	6. Double Minimum	
Stockton Stockton Stockton	6, Double Minimum	40.00 170.53

STATEMENT OF LANDS LISTED, ETC.—Continued.

DISTRICTS.	Number of Lists.	Number of	Actes.
. 174	1, Minimum	2,720.00	
Humboldt	0 Minimum	6,879.22	
Humboldt	2, Minimum	3,960.00	
	3, Minimum	120.00	
Humboldt	4, Minimum	120.00	13,679,22
Shasta	1, Minimum	10,975.10	• • • • • • • • • • • • • • • • • • • •
Obacto	6, Minimum	40.00	
Gh a ata	1. Double Minimum	2,364.00	
Oboato	2, Double Minimum	2,669.83	
Oboato	3, Double Minimum	1,248.32	
Shasta	5, Double Minimum	40.00	
Snasta	o, Double minimum		17,337.25
	1, Minimum	1,001.25	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Visalia		960.00	
Visalia		1,890.00	
Visalia	3, Minimum	401.60	
Visalia	4, Minimum		
Vigolia	6, Minimum	324.08	
Visalia	1, Double Minimum	2,773.11	
Visalia	2, Double Minimum	3,217.20	
Visalia	3, Double Minimum	1,693.46	
Visalia	4, Double Minimum	241.40	
Visalia	5. Double Minimum	80.00	
Visalia	6, Double Minimum	80.00	
Visalia	o, Double Millimum		12,662.10
"	1 Minimum	2,400.00	12,002.10
Marysville	1, Minimum	1.841.85	
Marysville	2, Minimum		
Marysville	3, Minimum	280.00	
Marysville	4, Minimum	245.80	
Marysville	5, Minimum	1,016.87	
Marysville	6, Minimum	280.00	
Marysville	7, Minimum	160.00	
Marysville	1, Double Minimum	4,312.96	
Marysville.	2, Double Minimum	10,889.94	
	3, Double Minimum	680.73	
Marysville	4. Darkla Minimum	280.00	
Marysville	4, Double Minimum	240.00	
Marysville	5, Double Minimum	40.00	
Marysville	6, Double Minimum		
Marysville	8, Double Minimum	320.00	00.000.15
·			22,988.15
Susanville	1, Minimum	480.00	
Susanville	2, Minimum	537.53	
Susanville	3, Minimum.	40.00	*
Susanville	4. Minimum	80.00	
Susanville		40.00	
Susanville	5, Minimum	40.00	
busanvine	2, Double Millinum	20.00	1,217.5
Dodia	1 16:	80.00	-,2-:.00
Bodie	1, Minimum		
Independence	2, Minimum	1,360.00	1 440 04
•		1.000.07	1,440.00
Aurora	1, Minimum	1,920.65	1,920.65
	1		
Making a grand total of			149,919.29

Mount Diablo.
San Bernardino.
San Bernardino.
San Bernardino.
San Bernardino.
San Bernardino.
San Bernardino.
Mount Diablo.
Mount Diablo. Meridian El Dorado
El Dorado
El Dorado
El Dorado
El Dorado
Yuba.
Lassen
San Luis Obispo.
Nevada University Lands Remaining Unsold June 30, 1890. 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 186.6 18 40.00 40.00 40.00 ,658.98 Range. Ä≱R Township. øżż 177 Section. 2012222224224224224221 0102122425241928 ខ្ពះ W. t of N. E. t - E. t of N. W. t - S. W. t of N. W. ot S.E. 4-N.E. 4 DESCRIPTION S.E. 2 of N.E. 2 of N.E. V. E. 4 of S.E. 4 E. t of N.W. jo 1-8.E. 4 Total number of acres N.W. 4 B. 4 of S. E. 4 of N. E. 4

B. 5 of N. W. 4

W. 4 of Lot 5

S. E. 4 of N. E. 4

W. 4 of N. E. 4

N. 4 of N. E. 4

N. 4 of N. E. 4

N. W. 4 of N. W. 4

N. W. 4 of N. W. 4

S. E. 4 of N. E. 4 N.W. & of N.W. Lot 5 Lot 7 ZELZÖZEZÖZEĞ 871 1677 1578

ANNUAL REPORT OF THE

# STATEMENTS OF PATENTS ISSUED

By the University of California, from April 29, 1872, to June 30, 1890.

	num.	Area Accepted by State.		!									00000	80.08 80.08	:								54.51				40.00							6.6 8.0 8.0	123.65	40.00	160.00	1						657.49	370.00	
	Double Minimum			<u> </u>			1			-				8.8	-								54.51				40.00		+			1		76.26 40.00	23.66	40.00	8.8	3						657.49	20.00	_
	Dog	Area Patented.					-								-								1							0	00	0	Н		_	<u>!</u>	- <b>-</b>	-	0	0	20	99	2 10	!	ಕು - !	_
	num.	Area Accepted by State.	2,720.00	8.09		160.8	8.9 8.8	240.00	160.00	160.00	9.09	3.85 3.85 3.85 3.85	160.00		160.00	380.00	\$ <del>\$</del> 6.00	39.00	40.00	399.78		_		219.39		160.00		3.3. 3.8.							8			40.00	. :			440.8 8.8	_ :	300.00	-	_
100	Minimum.	Area Patented.	2,720.00	36.63		160.8	90.00	231.65	160.00	160.00	9.08	3.65 3.65 3.65 3.65	160.00		160.00	360.00	86.08 80.08	86.8	9.09	400.00	640.00	35.10	200.00	219.39	160.00	160.00		8.8 8.8 8.8	90.08	8.9 8.08	8.8 8.8 8.8	9.0	40.08		1 10	10.02		16.65	160.00	40.00	40.8 80.08	418.82	20.00	190.70	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
sity of California, from April 29, 1872, to June 30, 1890	M. east An D. material	NAME OF PATENTEE.	Isaac Friedlander H. H. Warburton North T. Choden	W. W. Hayes, H. Lobliner, and W. R. Palmer, Trustees of Choro Lodge. No. 168, L. O. F.	Joseph M. Wood (canceled)	F. C. Davis.	Joseph Napthaly	Martin A. Britton	Patrick Nolan	Joseph A. Carrie	Charles A. Perkins	J. W. Haverstick	David N. Sherburn Charles Camden and William Magee	John Ellis and Erastus Wagoner	Jacob McKissick (canceled)	R. G. Byxby	Charles F. Potter	A. J. Forrister.  R. G. Flint	J. P. Andrews	Winford S. Whittaker		Lindsey Carson	Lindsey Carson	Andrew Gehringer	Stephen G. Little Isaac Rambean (canceled)	Lewis Tyron	Elon W. Root	August Hemme	Silas Coombs	Robert G. Bixbv	A. B. Forbes	S. A. Gyle	Archiles S. Hicks	John Harrington	F. R. Farman	C. D. Robinson	A. S. C. Cleek	B. B. Redding William T. Coleman	S. C. Stoval, assignee of Mary A. Glotzback	William T. Garratt	George C. Berry I. W. Johns	L. M., J. C., and J. L. Harl	J. C. Stoval (canceled)	Francis Boardman Ssigne of John P. Nelson	William T. Coleman	Commercial and Navings Bank of Dan Juse, assigned
By the University	Number of Losetton	Aumoer of Location.	2 201 2 20 3 21			_			180						343					332,	-	2		<del>2</del> 8		_													60 881	_			<u> </u>		239	Š
No		Patent.							1212				# <b>5</b>	ন্ত্র -:	181	3 2	188	¥ 53	88	38						101													18-		•					
	Date of Patent.		1872—April 29 Dec. 30 Dec. 30	1873—Jan. 7.	Jan. 7. April 21	1874—Ang. 5.	Aug. 5.	Sept. 22.	Sept. 28.	Oct. 10.	Oct. 19.	9 8	16/0—Jan. 7. Jan. 4.	Jan. 7.	Jan. 19.				Mar. 9.		July 18	Aug.	Aug. 16	Sept. 24 Nov. 2	1876—Feb. 2	Feb.	Feb. 18 April 14	June 24	June 24	Aug. 26	Oct.	Dec. 27 1877—Jan. 5	Feb.	Aug. 13	Aug. 15 Aug. 13	Aug. 16	Oct. 27	Nov. 15	1878—Jan. 18	Jan. 18 Jan. 18	Jan. 18	Jan. 31	Jan. 31	Feb. 4	Feb.	J. 4.17

	Double Minimum.	Area Accepted by State.	280.00	5.83 ± 83 ± 4 ± 4 ± 4 ± 4 ± 4 ± 4 ± 4 ± 4 ± 4 ±
	Double M	Area Patented.	4,230.66 274.12 317.19	25.25.25.25.25.25.25.25.25.25.25.25.25.2
	Minimum.	Arcepted by State.	2,580.00 5,46.31 5,46.31 191.45 191.45 191.45 190.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 180.00 18	25.88 88.85 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65 88.65
	Mini	Area Patented.	280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 280.00 28	88.08 89.00 89.00 120.00 160.00 160.00
Statement of Patents IssuedContinued.		NAME OF PATENTEE.	James B. Haggin, assignee of Henry R. Williams and Thomas B. McCauley W. W. Hayes (canceled) E. J. Baldwin Soseph Russ R. Jack Robert S. Floyd et al., Trustees of James Lick Trust. Joseph J. Chandon, assignee of J. W. Brim Joseph J. Chandon Joseph J. Chardon Joseph J. Warriam, by virtue of a certain Sheriff's deed dated January 11, 1878 O. W. Merriam, by virtue of a deed signed by Amelia Burrage, administratrix Charles Wood Affred Green Mark Hubbard, assignee of August Shack John Murphy Joseph Russ H. J. Holmes John Murphy Joseph Russ James Turnstead Ann Alexander, assignee of William Liptrap Skephen Reese Jackson Hart, assignee of Robert Nixon August Henme B. F. Langford	Richard T. Pope M. Brandenstein Dunning Gibbons Jun Tuchy L. Godehaux Edward McDonough Bamuel Daville David H. Allen D. N. Friesleben G. W. Murdock Thomas J. Kirkpatrick C. B. Ashurst Thomas J. Kirkpatrick C. B. Ashurst Thomas M. McGlanahan Thomas J. Wilbur G. B. Ashurst Thomas M. McGlanahan F. R. Lofton, assignee of G. W. Hiatt E. R. Lofton, assignee of J. Finnell G. G. Briges G.
<b>.</b>		Number of Location.	1089, 1080, 1081, 1084, 1084, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1089, 1288, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289, 1289,	108   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769   769
		Patent.		
	•	Dave of Patent	1878—Feb. 9 Feb. 9 Feb. 9 Feb. 9 Feb. 9 April 185 April 185 April 185 April 185 Aug. 23 Aug. 23 Aug. 24 Aug. 25 Aug. 25 Aug. 26 Aug. 27 Aug. 2	

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	No. of			Minf	Minimum.	Double Minimum	inimum.
Date of Patent.	f Patent.	Number of Location.	Name of Patentee.	Area Patented	Area Accepted by State.	Area Patented.	Accepted by State.
1880—Jan. 17 Jan. 17	148 149	1111	Jeremiah Morgan Santa Clara Valley Mill and Lumber Company			40.00	40.00
Jan. 17	150	1373.	assignee of J. M. Wood  Matthew Aaron and Abraham Kiser, assignees of A.			40.00	40.00
Jan. 17	151	841, 646, 595, 1002, 1003	A. Burgess Santa Clara Valley Mill and Lumber Company,	34.21	40.00		
	152	807	assignee of w. F. Dougnerty Charles S. Lohse	27.41	40.00	402.46	402.46
Feb. 9.	32,	1129	James Lydon E. L. Bradley			40.00 160.00	180.00 180.00
	32	414	Ambrose Lyall Richard McEnespy	10.32	40.00	160.00	160.00
	157	1370, 1377 883	Higgins & Collins, assignees of Wille & Conway M. Brandenstein, assignee of John Cook	160.00	160.00	80 02	86 05
	155 6	1181	Alexander Robertson	40.00	40.00	8.00	8 18
	<u> </u>	748 1830 1822 1825 1926	Jay Burnap, assignee of Hy. M. Mitchell			160.00	160.08
	<b>38</b>	3 3	Francis L. Whitney (Seminary, 320 acres)	2,030.00	2,080.00		
	183	1462	Sarah Margaret Simpson Simon B. Pulliam	240.08 40.09	240.08 40.00		
	167	1326 1016, 10164	Geo. C. Berry James W. Kaseburg	80.00	80.00	9	9
	8 8 8	1385 406, 407	Joseph Thompson Henry C. Wilson		: 	27.98	3.6 3.8 3.8
	25	541 503	P. M. Cleghorn (canceled).			04.624	0#.657# 
	127	246	Pacific Mutual Life Insurance Company of California,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40.00	
Nov.	173	605	assignee of Charles G. Bockius Philips Hefner			3.8 8.8	
1881—Jan. 17 Jan. 17	174 175	498. 515	H. S. Graves H. S. Graves			182.00	
	176	492	H. S. Graves			88	
Jan. 17	178	544	H. S. Graves.			88	
Jan. 17	179 180	551 546	H. S. Graves H. S. Grayes			97.76 240.00	ł
Jan. 17 Jan. 17	182	512 554	Wilbur. Wilbur.			240.00	80.00 240.00
Feb. 10	25 Z	1393 1480	Jerome Lincoln, assignee of Siven Alstrom Gualala Mill Company, assignee of Benj. F. Warren.	40.06 9.08	40.00 40.00	<del></del>	- 1 1
Feb. 10 Feb. 17	88	1382 1311	ke W	159.71 40.00	159.71 40.00		
Feb. 17	188	1463 1194, 1195, 1196	Horatio P. Livermore Geo. T. Hawley, assignee of Wm. H. Van Arsdale	720.00	720.00 720.00		
Feb. 17 Feb. 24	8 8 8 8 8	1198	Haw s Mat	840.99 40.90	640.08 9.09 9.09		
Mar. 5	<u>6</u> 5	1481		40.00	46.00 76.00		
Mar. 12.	193	1470, 1471	Calvin S. Kelly and David T. Farnsworth, assignees	1900	1900.41		!
		958	J. W. Potts, assignee of L. Brooks	38	38		
		800, 807 1438	E. H. Duncan, assignee of Louis Harbers William P. English	48.21	48.25 48.21		
Mar. 17	198	608 858, 1006	Lauchlin McDonald Henry Hutchinson, assignee of Salena G. Truett	386.30 386.33	366.32 366.32		
		798	Isaac A. Cooper Henry Miller and C. Lux, assignees of Martin and J.			22.32	40.00
Mar 28		1979 1978 1974 1975 1976 1977	Luther	-		159.25	159.25 588.69
Mar. 28-		1287	Miller & Lux, assignees of C. Lux			47.69	47.69
April 7		1338	N. W. Chittenden			47.09	47.09
April 7		1358 1413	Hiram Briggs James H. Laughlin	3.8 8.8 8.8	9.65 9.69		
April 7		1483, 1434	Hiram Briggs	86.0	88		
April 16.		575		300	20.04	80.00	80.00
April 19	a a a	360	Thomas and Patrick Kelly, assignees of Sam'l B.	<b>40.04</b>	40.00		
May 7.		550	Martin J. A. Blasingame, assignee of W. T. Cole	160.00	160,00	25.60	40.00
May 12 May 14		706	Robert Gordon Void			40.00	40.00
May 14		1424, 1446	J. C. Stoval Henderson Brown	240.31	240.31	160 00	160.00
May 14.	217	336	Warren Bryant, assignee of Jurgen Christensen.			40.00	40.00
May 14.		1314	Peter Turner			40.00	40.00
ייבי לפחו	_		Whitain Cameron			70.021	3,001

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ISSUED (
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STATEMENT

Frederick Tarke John H. Wise and Thomas Dunnigan, assignees of Joseph Carter. Thomas H. Howell George A. Lamont, assignee of J. M. Wood John F. Todd and Robert Gibson, assignees of G. W. Heald Heirs of G. W. Owen, deceased	Jasher Harrier, assignee of Owen Wright. J. Murietta, assignee of R. de Clairmont. P. N. Emerson. John H. Wise and Thomas Dunnigan, a Joseph Carter. Thomas H. Howell. George A. Lamont, assignee of J. M. Woc. John F. Todd and Robert Gibson, assign. Head G. W. Owen, deceased.	7 8 8 , 685, 686, 687 8 8
Heirs of G. W. Owen, deceased Heirs of James P. Smith, deceased H. C. Wilson I. H. McNee, assignee of W. W. Johnston Gesch Korbell, assignee of C. C. Hunger I. H. Logan W. F. Peabody Edmund Jones H. A. Staller, assignee of S. Morton L. Lamberton J. L. Jack J. E. Jack J. E. Jack J. E. Jack J. B. Jack J. J. J. Jack J. J. J. Jack J. J. J. J. Jack J. J. J. Jack J. J. J. Jack J. J. J. Jack J. J. J. J. Jack J. J. J. J. Jack J	G. V Jam Jam Jam Jam Jor Jor Vyton V. V. W. V. W. V.	Heirs of G. W. Owen, de Heirs of James P. Smith H. C. Wilson. J. H. McNee, assignee of Joseph Korbell, assignee of J. H. Logan W. F. Peabody. J. A. Staller, assignee of L. Lamberton. J. A. Staller, assignee of L. Lamberton. John T. Jones. W. S. Bayton, assignee C. Vanlee Crocker, assignee C. Walker & Wenzies, assignee C. Marles Crocker, assignee C. Thomas W. Moore. J. H. McNee, assignee of Thomas W. Moore. John Harford. Charles Crocker. R. B. Jack. R. B. Jack. R. B. Jack. R. B. Jack. R. G. Rowley. L. Godchaux. L. Godchaux. M. Brandenstein.

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	num.	Area Accepted by State.	89.00 (380.00 (40.03 120.00 320.00 120.00	1,000,000,000,000,000,000,000,000,000,0	
	Minimum.	Area Patented.	80.00 (830.00 (830.00 (80.00 (830.00 (120.00 (120.00 (120.00	26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26.08 26	
STATEMENT OF PATENTS ISSUED—Continued.		Name of Patentee.	E. R. Lowe, assignee of G. M. Hiatt Hugh A. Logan C. Bridgan C. B. Randol, assignee of Frederick Crichton Alicia M. Berry, assignee of George C. Berry J. B. Haggin, assignee of George C. Berry J. B. Haggin, assignee of Martin White and W. B. Carr, San Haggin, assignee of George C. Berry William Moran E. H. McDonald John Reynolds W. H. Bias, assignee of J. L. Garrett, the latter assignee of W. Purdy Robert Gardner (32) acres) Henry W. Stuben Alexander Fraser, assignee of Emanuel L. Reed Alexander Fraser, assignee of John Freeman Alexander Kraft, assignee of John Freeman L. J. Cummings Stephen Reese C. Cabot. A. M. Basley M. N. Bryan C. Cabot. A. M. Basley M. N. Bryan L. J. Cummings M. N. Bryan C. Cabot. A. M. Basley M. N. Bryan L. John Barry L. John Barry L. Loran Luther H. Fullips C. H. Loran Luther H. Fullips C. H. Loran L. H. Loran		. H. Miller and C. Lux, assignees of James and M. Luther
Š.		Number of Location.	886. 886. 887. 11331, 1334. 1339. 1438. 1447. 1417. 1417. 1417. 1418. 880, 887. 1600, 1601, 1602, 1604, 1608, 1604, 1608, 1610. 1800, 1801, 1602, 1603, 1604, 1608, 1609, 1610. 1800, 1601, 1602, 1603, 1604, 1608, 1608, 1610. 1808. 1808. 1808. 1808. 1808. 1808. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809. 1809	1444 670 1564, 1666 1568, 1666 1688 1688 1688 1688 1688 1680 1222, 702, 776, 783, 949 1444, 1466 404 951 1606 1606 1606 1606 1606 1606 1606 16	058 10
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	NAME OF PATENTEE.	Daniel M. Copsey Henry Marden Edward Kruse James D. Bowen Stephen Reese. W. Hamilton, assignee of P. P. Martin H. F. Farbanks. G. W. Clarke, assignee of J. S. Williams M. C. Clark M. C. Clark G. Staacke Jesse D. Carr G. Staacke Jugen Christensen Liuallen J. Hall P. N. Aaronson and A. Galland, assignees of Edmond	Fields I. McCausland Fried A. Jacob Ramboly, Bamboly Rambols R	leaf, assi n	H. F. Eakle, assignee of Charles E. Stewart Henry Flock (160 acres) H. Hawis, assignee of James R. Watson W. B. James, H. Lewis, assignee of G. W. Rees and T. Brewer and T. Brewer and T. Brewer A. K. Martin Heirs of J. H. Keys, assignees of J. W. Huflaker and T. Brewer  B. F. Martin Heirs of J. W. Cooper J. W. Cooper J. W. Cooper J. W. Cooper J. W. Gooper J. W. Gooper J. W. Gooper J. M. McDonald Alexander Duncan S. A. Gyle H. Miller and C. Lux, assignees of Jacob Luther V. D. Moody, assignee of A. B. Conley William Rice, assignee of M. H. Lyons W. G. Little B. G. Little R. E. Jack C. H. Hoffman, assignee of J. D. Hyde R. E. Jack W. C. Turney A. Kinney A. Kinney A. Kinney A. Kinney A. W. Von Schmidt Hiram Gilmore Judah Baker, Jr. Judah Baker, Jr. Martin Griffin, M. and T. Spence, assignee of Frederick Pfiel John Proctor, assignee of Frederick Pfiel John Proctor, assignee of Frederick Pfiel John Proctor, assignee of Frederick B. V. Sargent John P. Barrie Carl G. Munich, assignee of Buncan McNee J. C. Stovall, assignee of Mary A. Glotzback J. C. Stovall, assignee of Mary A. Glotzback J. C. Stovall, assignee
	Number of Location.	1486 1662, 1663 1671, 1712 1696 1260 1260 1260 470, 1237, 1259 444 11673 1073, 1074 11873 11873 11874 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877 11877	1500 1716 1716 1841 588 323 1706 1450 1644 1448 589 1448		
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	75	Dec. Freb. Freb. Freb. Freb. Freb. Freb. AMar. April	May May May July July July Aug. Sept. Sept. Sept.	Jan. Jan. Jan.	Jan. 27.  Mar. 18.  Mar. 18.  Mar. 18.  Mar. 28.  April 2.  April 2.  April 2.  April 2.  April 3.  Aug. 2.  June 12.  June 13.  Oct. 14.
	Date	1883—1884—1884		1886	
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	fnimum.	Area Accepted by State.	80.89 204.09 320.00 320.00 80.00 80.00 46.63 83.91	320.00 40.00 230.62	160.00 80.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 2
	Double Minimum.	Area Patented.	20.00 204.08 160.00 320.00 80.00 80.00 88.91	\$20.00 40.00 230.62	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 23.00 23.00 24.00 25.00 26.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27.00 27
	nam.	Area Accepted by State.	\$55.00 \$4.00 \$56.00 \$21.06 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.00 \$3.	40.00	88.79 80.00 128.00 40.00 40.00 40.00 40.00 40.00 1,000.00 1,000.00 1,000.00 1,000.00
	Minimum	Area Patented.	40.08 40.00 40.07 450.00 40.00 80.00 80.00 80.00 80.00	40.00	1,920.65 68.79 68.79 119.54 40.00 40.00 1,000.00 1,000.00 1,000.00 1,000.00 1,000.00
STATEMENT OF PATENTS ISSUED-Continued.	•	NAME OF PATENTEE.	John E. Jackson, assignee of E. M. Ross  The Napa Consolidated Quicksilver Mining Company, assignee of M. G. Rhodes Simon Newman  M. J. McGovern, assignee of John McGovern John Boggs, assignee of M. L. Chandler John Boggs, assignee of M. L. Chandler Murois Goldtree, assignee of Maria Concepcion B. de Murois Goldtree, assignee of Maria Concepcion B. de Munos Charles L. French, assignee of James K. Lynch Henry C. Hawley, assignee of G. W. Colby David Williams David Williams D. O. Daggett, assignee of G. T. Thornton David William Johon  William Johon  William Johon  Joseph Korbel  David Wooster  Estate of Sinon Zimmerman, deceased Anthony Maraschi John Reynolds  John Reynolds  Longer Alexander	John Boggs, assignee of George Champlin Chas, W. Frice (66.07 acres) James Traynor F. F. Marx Estate of Benjamin Flint, deceased Estate of Gabriel Little, deceased The Buena Vista Petroleum Company, assignee of J. O. Loveloy	Richard Kinnan and Thomas B. Rickey, assignees of Jesse N. Summers. Jesse N. Summers. Jesse N. Summers. Jesse N. Summers. Jesse Outh Yuba Water and Mining Company, assignee of E. L. McClure The South Yuba Water and Mining Company, assignee of E. L. McClure Northern California Land Company, assignee of W. H. Parks, Jr. Amendatory of patent 463 T. M. Eby S. H. Seymour, assignee of Isaac N. Stapp Laughlin McDonald H. A. Logan H. A. Logan H. A. Logan Wesley Burnett James Liddle S. M. Smoot Michael Pfeiffer H. S. McMichael Canceled William M. Scott Albert Dibble Albert Dibble Albert Dibble Albert Dibble Albert Dibble Joseph Russ Joseph Rus
Ø2		Number of Location.	434 1170 436 619 437 772, 773, 947 440 468 441 1180 442 1152 444 1042 445 517 446 619 619 619 619 619 619 619 619 619 61		466 1823 466 1823 466 1823 467 543 468 1034, 1666 471 1437 472 1763 473 1564, 1586 474 1774 477 1767 477 1767 477 1767 477 1767 477 1767 477 1767 477 1767 478 1767 478 1767 479 1767 471 119 489 1740 489 1891 489 18
	,	Date of Patent.	1886—Dec. 6-Dec. 8-Dec. 8-Dec. 8-Dec. 8-Dec. 8-Dec. 28-Dec. 28		July 22.  July 24.  July 24.  July 24.  July 24.  Aug. 13.  Sept. 25.  Sept. 26.  Sept.

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	inimum.	Area Accepted by State.	46.00 46.00 279.68 86.05 86.06 40.00	320.00 1460.00 1160.00 140.00 804.00 804.00	40.00 40.00 240.00 51.18 40.00 80.00 80.00 120.00 120.00 40.00 40.00
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Statement of Patents Issued—Continued.		NAME OF PATENTEE.	Geo. Bushby. William Webb, assignee of Lincoln Webb J. C. Carwile G. G. Johnson, assignee of J. B. Swan Augustus Cleale, assignee of Henry Brown Samuel H. Creps John Thomas Frederick W. Behrens Not issued James D. Rawell James D. Rawell Rutus H. Small N. W. Fales Mary Falles Mary Falles Mary Falles Mary Falles Mary Mary Falles Mary Halles	banks, minors Joseph H. C. Wilson Joseph M. Gide William M. Soott W. S. M. Wright Joseph Korbel D. O. Daggett Bobert S. Hardin George D. Rowan Marcus D. Hyde, assignee of Samuel and John Kelly- Priestly Hall Joel P. Whitney, assignee of Francis L. Whitney Albert Diable Joses D. Gar William Hawes John Boggs Jesse D. Gar W. W. Brown, assignee of Brown & Curtis Walter M. Jeffreys C. A. Perkins (amendatory to 431)	W. A. Turner. George H. Singley, assignee of W. P. Lampkin Charles H. F. Braun John C. Whife Henry Venigerholz and Hiram Gilmore. Richard McEnespy Mary B. Cook Mary B. Cook M. Mulqueeney, assignee of Thos. H. Dowling E. F. Beale E. F. Beale E. F. Beale E. F. Beale Corner Heman Thompson Thomas S. Hardin Robert G. Gibson M. Dooling N. H. Fales George H. Singley George H. Singley George H. Singley George H. Singley John Reynolds H. Burgett John Reynolds H. Burgett John Reynolds H. Burgett John Reynolds H. Suss A. T. Wilton Daniel Glovannin, assignee of L. D. Casey, the latter assignee of William Moyle Trank Statzel John Tuoby John Carr, assignee of C. H. Schultz C. P. Moore George E. White Berry Wright Thomas Flint John G. Bush Louis Levinsky
STAT		Number of Location.	1581 1408 1816, 349 124 849 11183 1024 925 219, 638 1416 1416 1623	685 988 1741, 1742 1706 1348, 1362 1114 176, 1792 176, 1793 176, 1767 176, 1767 176, 1767 176, 116, 1118, 1120 176, 1767 1780 1780 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781 1781	586   1441 587   1824 588   1422 589   1112 541   301 542   1708 542   1708 543   314 544   1380 546   1615 550   1666 551   1666 552   1777 564   1657 566   1832 566   1832 567   1838 568   1777 568   1778 569   1778 569   1778 560   1778 560   1778 561   1657 562   1657 563   1778 564   1778 565   1778 566   1778 567   1778 577   1728 577   1728 578   1778 577   1728
	No. o	f Patent.	500 500 500 500 500 500 500 500 500 500	517 517 518 528 528 528 528 528 528 528 528 538 538 538 538 538 538 538 538 538 53	
		Date of Patent.	1887—Aug. 22.—Aug. 22.—Aug. 22.—Oct. 1.—Oct. 10.—Oct. 10.—Oct. 10.—Oct. 10.—Oct. 9.—Oct. 9.—Oc	Feb. 8-Feb. 12-Feb. 12-Feb. 8-Feb. 12-Feb. 12-Feb. 12-Feb. 12-Feb. 8-Feb. 12-Feb. 12	

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	NAME OF PATENTEE.	Louis Levinsky Louis Levinsky W. P. Ink W. P. Ink W. P. Br.	Frederick Yordi Matthew Lynch	Allen Towle Allen Towle Charles Davie	Ruel Stickney Ruel Stickney	Ruel Stickney Charles C. Paulk Boars Wright	John Wight  James L. Gould  Romer Wicht	Denly Wilging Augustus Moore George Atkinson	Hiram M. Buck. James H. Wilson and Warren Moore, assignees of	B. Marks and M. Nerofield, assignees of C. H. English.	Robert Clark, assignee of Alfred Tucker	William Farington, assignee of Peter Donnelly William E. Kaiser, assignee of Isaiah Yount. John C. Russell, assignee of William A. Russell	Jesse D. Carr. N. Goldtree, assignee of Morris Goldtree, assignee of	Le estate of Dayld kussell in msolvency J. N. Hubbard, assignee of Timothy Paige Peter Bartle, assignee of Gorne Rartle	William Dinning	in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flune and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co.	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankringev of Sierra Flume and Lumber Co.	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in hankringtor of Sierra Flume and Lumber Co.	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankrupter of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co.	in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	in bankruptcy of Sierra Flume and Lumber Co	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	in bankruptcy of Sierra Flume and Lumber Co	in bankruptcy of Sierra Flume and Lumber Co
	Number of Location.	1261 1266 1569 1661 1049	1505 1308	968 866 1235	747 747 <sub>8</sub>	747 <del>2</del> 1682 1689	921	1149	Seminary	1720 1630 1403				603 1036								808	608	810	811	812	818	814	815.	816	820	821	851	852	858	80 <del>4</del>	908
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		No. o			Minimum	nam.	Double Minimum.	inimum.
Date of Patent.	nt.	f Patent.	Number of Location.	NAME OF PATENTEE.	Area. Patented.	Area Accepted by State.	Area Patented.	Area Accepted by State.
1890—May	2.	701	1061	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	8	5		
May	2-	702	1062	Sierra Lumber Co., assignees of C. T. Hopkins, trustee	8 8	8.6		1 1 1 1 1 1 1
May	-7	703	1063	in pankrupicy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	8.83	1.00.00		
May	2	704	968	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	160.00	160.00		† 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
May	2.	705	897	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee		202.75		
May	2	206	888	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee		160.00		
May	67	707		in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee		240.00		
May	2	708	-006	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee		320.00		
May	2	709	901	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee		314.03		
May	2-	710	910	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee		298.61		
May	2	711	911	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	320.00	320.00		
, May	2	712	912	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	200.00	200.00		
May	2	713	913	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	320.00	320.00		-
May	2	714	914.	in bankruptcy of Sierra Flume and Lûmber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	320.00	320.00		;
May	2	716	916	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	\$20.00	320.00		
May	2	716	916	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	321.11	321.11		
May	2	717	917	in bankruptcy of Sierra Flume and Lumber Co Sierra Lumber Co., assignees of C. T. Hopkins, trustee	320.00	320.00		1 1 1 1 1 1 1
	-			in bankruptcy of Sierra Flume and Lumber Co	320.00	320.00	1	
May	2	718	918	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in hankrnotey of Sierra Flume and Lumber Co	240.00	240.00		
May	2	612	919	Sierra Lumber Co., assignees of C. T. Hopkins, trustee in hankringtov of Sierra Flume and Lumber Co	320.00	320.00		
May	2.	720	920	Sierra Lumber Co., assigness of C. T. Hopkins, trustee in bankruptcy of Sierra Flume and Lumber Co	200.00	200.00		
Tota Tota	l are	Total area of mi Total area of do	ninimum land patented			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		79,012.17 46,383.49
To	tal a	rea pa	Total area patented to June 30, 1890					125,395.66
Tota Tota	lare lare	a min a dou	Total area minimum land accepted by State Total area double minimum land accepted by State.	State				79,517.63 46,710.35
To	tal a	геа ас	Total area accepted by State to June 30, 1890					126,227.98

Respectfully submitted.

J. H. C. BONTÉ, Land Agent.

### DONATIONS TO LIBRARY—Continued.

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Bailey, Charles A., collection of real estate maps and circulars Baltimore College of Dental Surgery Bangor Public Library Barnard, E. E., Lick Observatory Barnard College, New York		
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# THE MUSEUM OF THE UNIVERSITY.

J. J. RIVERS, Curator.

### MEMORANDA OF ADDITIONS TO THE MUSEUM, 1889-90.

TO THE DEPARTMENT OF ETHNOLOGY.

Armes, Wm. D., Instructor in the English Department of the University, made the following valuable donation: Pair of deerskin socks, from Alaska; part of a wooden mask, Alaska; a well made ivory needle, from Oogliamie, Alaska; a pair of snowshoes Oogliamie, Alaska; a large ivory harpoon-head, Wainwright Inlet, Alaska; a bone headed spear, St. Michels, Alaska; one wooden spear shaft, and a bone needle headed spear, St. Michels, Alaska; one wooden spear shaft, and a bone needle, Alaska; a small harpoon-head, Point Hope, Alaska; a pair of charms, they being two boards representing, in figures, a whale-catching scene, Point Belcher, Alaska; a deerskin Parka, or shirt, Oogliamie, Alaska; a sealskin coat, Alaska; a set of gambling implements, Fort Wrangle, Alaska; a halibut hook, Fort Wrangle, Alaska; two teeth from a Polar bear, St. Michels, Alaska; pair of large sealskin boots, Plover Bay, Siberia; pair of small deerskin boots, Julian Point, Siberia; a pair of deerskin mittens, St. Lawrence Bay, Siberia; two milk tusks of walrus, two and three quarters inches long, East Cape, Siberia; one walrus tusk, two inches long, prepared as an implement, East Cape, Siberia; five ivory carvings, East Cape, Siberia; pair of sealskin trawsers. East Cape, Siberia; a flint sind dresser with carved long, prepared as an implement, East Cape, Siberia; five ivory carvings, East Cape, Siberia; pair of sealskin trowsers, East Cape, Siberia; a flint skin dresser with carved holder, Point Hope, Alaska; duck snares, composed of rounded pieces of ivory fastened to strings of finely twisted sinews; these are tied in bunches of five and used as an obolus, Point Hope, Alaska; a head-rope for carrying burdens, Yale, British Columbia; a carved stone pestle, Yale, British Columbia; two horn spoons, British Columbia; two horn spoons, British Columbia; two horn spoons, British Columbia; two wooden spoons, British Columbia; fish hooks, arranged upon a zint spike as a sinker, Plover Bay, Siberia; an ingenious wooden rattle, having a humanlike owl's face, carved upon two sides, Alaska; four miniature wooden masks, Alaska; five wooden figures and a toy canoe, Alaska; a stone skin flesher, or hatchet, Alaska; two artistically carved chopsticks, Alaska; a few small pieces of Tappa cloth, and a piece of the twig of the tree whose bark is formed into the cloth, Hawaii. Charleston, W. S., Mountain View, Santa Clara, Cal.—Sandstone pestles from Charleston Farm.

PAIM.
CRAWFORD, A. W.—Pestles from San José, Cal.
PALMER, THEODORE.—Obsidian arrowhead, from Santa Rosa, Sonoma County, Cal.; part of a stone pestle, Berkeley; obsidian arrowhead, Berkeley; a pale colored sandstone mortar, Berkeley; a red colored sandstone mortar, Berkeley; and a part of a conglomerate mortar, Berkeley.
RIVERS, J. J., Curator of the Museum.—Stone mortar found on the form of University of the County of the Museum.—Stone mortar found on the form of University for the form of the County 
versity grounds; mortar found near the north line of University grounds; mortar found on the University domain; mortar and pestle, from Centreville; mortar and pestle, from Walnut Creek, Contra Costa County, California; mortar from West Berkeley Mound; a part of a matata from mound of Shell Mound Park; twenty not sinkers, from West Berkeley Mound; give imperfect mortars, from West Berkeley Mound; five imperfect mortars for west Berkeley Mound; five imperfect mortars from West Berkeley Mound; fiv west Berkeley Mound; nive imperiect mortars, from west Berkeley Mound; three bottoms of mortars, broken out by the force of pounding, from West Berkeley Mound; one mortar that had been converted from a piece of a larger one, from West Berkeley Mound; sixteen whole pestles, made of various rocks, among them miss slate, sandstone, and basalt, all from West Berkeley Mound; a peculiarly formed pestle, eleven and one half inches at the pounding end, while the opposite end if reduced to an apex of one inch; this was found by J. J. Rivers, near the site of a former Indian encampment behind the Palmer residence on Strawberry Creek, Berkeley a pestle found on the Hillegra settle south of University grounds; a sendformer Indian encampment behind the Palmer residence on Strawberry Creek, Berke ley; a pestle, found on the Hillegas estate, south of University grounds; a sand stone pestle, from Shell Mound Park; pebble used as a hammer, Shell Mound Park; a stone sinker, crudely made, having three angles simply notched, Shell Mound Park; two rounded stones, possibly used as smoothing tools, from West Berkeley Mound; three naturally rounded stones, possibly used only as heated stones in cooking, West Berkeley Mound; a flat stone, six by six inches, perforated with one large hole nest the thinner edge, use doubtful, West Berkeley Mound; three common pattern metainkers, from Shell Mound Park; ten stones, of various patterns and uses, all from West Berkeley Mound; a drill of hard, black basalt, from Shell Mound Park; three drills, one made of glaucophane, and two of mica schist, all three from West Berkeley Mound: portions of four sandstone drills, from West Berkeley Mound: Berkeley Mound; portions of four sandstone drills, from West Berkeley Mound; small pestle, West Berkeley Mound; a notched piece of basalt, evidently used as

gauge by which to test certain angular work, from Shell Mound Park; fishing line sinker, perforated at one end, made of serpentine rock, also, another imperfect specimen, both from West Berkeley Mound; a fishing line sinker of serpentine, from Shell Mound Park; four pieces of stone used in smoothing articles of manufacture, West Berkeley Mound; a stone relic, pointed at one end, and an obtuse shoulder worked at the other; its use is possibly that of a sinker to a fishing line, West Berkeley Mound; four carved sandstone relics, of various patterns, West Berkeley Mound; ley Mound; four carved sandstone relics, of various patterns, West Berkeley Mound; a stone drill, West Berkeley Mound; a green porphyry hammer stone, West Berkeley Mound; a very large net sinker, with groove around the center, West Berkeley Mound; a large part of a perforated net sinker, from Shell Mound Park; shell necklace of wampum, of sixty pieces, found about the skull of an Indian as it was being exhumed from the mound at West Berkeley; a stone drill of mica schist, from Shell Mound Park; two bone implements, used in the art of preparing hides, from Shell Mound Park; eight obsidian relics, from Shell Mound Park; three obsidian relics, from Shell Mound Park; a shell ornament, from Shell Mound Park; two fine spearheads, from Shell Mound Park, one of which is six and one half inches long; five obsidian relics, from Napa Valley; a perfect example in carved stone of a trowling line sinker, from Merced River; another fine example of trowling line sinker, from Shell Mound Park; a granitic arrow gauge, example in carved stone of a trowling line sinker, from Merced River; another fine example of trowling line sinker, from Shell Mound Park; a granitic arrow gauge, from Shasta County; ten bone bodkins, from Shell Mound Park; three bone drills, from Shell Mound Park; a bone saw, from Shell Mound Park; three bones, in preparation of manufacture into implements, from Shell Mound Park; three stone relics, West Berkeley Mound; a bone saw made from the scapula of the deer, from Shell Mound Park; three wedge-shaped relics made of deer horn, from West Berkeley Mound; a bone saw made from a scapula of the deer, from West Berkeley Mound; the deer from West Berkeley Mound; the large bone saw made from hind and front the deer, from West Berkeley Mound; two large bone awls made from hind and front of tibia of deer, from Shell Mound Park; some perforated mica, used as money, from Shell Mound Park; box No. 1, of mound material, consisting mostly of human bones, from West Berkeley Mound; box No. 2, mound material, containing fractured human skulls, from West Berkeley Mound; box No. 3 contains a skeleton of an Indian exhumed in 1876 at Shell Mound Park; box No. 4, mound material, human bones, from Shell Mound Park; box No. 5, mound material, burnan skulls, from West from Shell Mound Park; box No. 5, mound material, human skulls, from West Berkeley Mound; box No. 6, mound material, animal bones, from West Berkeley Mound; box No. 7, mound material, contains human and animal bones, from West Berkeley Mound; box No. 8, mound material, human jaw bones, from West Berkeley Mound; box No. 9, mound material, human leg and arm bones, from West Berkeley Mound; box No. 10, mound material, the principal bones of the skeleton of an Indian killed in battle; the two illiac bones have each an arrow imbedded therein, which may be considered evidence of the last encounter, exhumed from West Berkeley Mound.

Robinson, Geo. Prentiss, U. C. '91.—A Hoopa Indian baby carrier, with the face shield attached, brought from the Hoopa Reservation at Humboldt County, Cal.; a fancy basket made by Hoopa Indians; a hat plaited with fern fiber of three colors in artistic pattern and design, by Hoopa Indians; a table mat, made by Hoopa Indians; a Hoopa Indian war arrow; and a specimen of hunting arrow of the Klamath Indians. Sperry, J. C., Mammoth Grove Hotel, Calaveras County, Cal.—One spearhead and one arrowhead from Indian burying ground, Stockton, Cal.

### TO THE DEPARTMENT OF ZOOLOGY.

Abnheim, Julius S., San Francisco.—Terebratella transversa-caurtina, from Alaska; a vertebral column and skull of shark, also a vertebra of dogfish, both from the Gulf of California; numerous examples of crustacea from Farralone Islands; some reptiles from South America.

ARNOTT, J., Camptonville, Yuba County, Cal.—A specimen of that rare bird, Hylotomus

ABMES, W. D., Instructor, University California. - A specimen of the lizard Gerrhonotus multicarinatus, from Strawberry Cañon, Berkeley.

Brown, Bert, Bolsa, Southern California.—Specimen of the Great Bat, Nyctinomus ferm-

orasaccus.

BUSH, MBS. A. E., San José, Cal.—Specimens of Agraulis vanillæ from San Pedro, Cal., and of Callidryas eubule, from San Pedro, Cal.

COBNWALL, MISS C. I., U. C. '91.—A large specimen of stomach ball of felted hair found

in a hog in Napa City.

In a nog in Napa City.

Coughlan, J. H., San Francisco, formerly of the U. C.—Specimens of Argynnis rupestris, Behr., from Big Tree Grove, Calaveras County, Cal.; Argynnis monticola, Behr., Yosemite; Grapta faunus, Edw., Big Trees, Calaveras County; Vanessa Californica, Boisd., Big Trees; Vanessa Atalanta, Linn.; Junonia cænia, Hub., Big Trees, Calaveras County, Cal.

Crawford, A. W., Oakland, Cal.—Specimens of the following:

Papilio philenor, Alameda County.

Papilio philenor, Alameda County.

Papilio zolicaon, Alameda County. Papilio eurymedon, Alameda County. Papilio rutulus, Alameda County. Pieris napi, Alameda County. Anthocharis sara, Alameda County.

Colias eurytheme, Alameda County. Argynnis callippe, Alameda County. Melitæa chalcedon, Alameda County. Grapta satyrus, Alameda County.
Grapta faunus, Alameda County.
Grapta zephyrus, Alameda County.
Vanessa antiopa, Alameda County.
Vanessa Californica, Alameda County.
Vanessa milberti, Alameda County.
Vanessa Milberti, Alameda County. Vanessa Atalanta, Alameda County. Vanessa Huntera, Alameda County. Vanessa cardui, Alameda County. Vanessa carvi, Alameda County. Junonia conia, Alameda County. Liminitis Lorquini, Santa Clara County. Heterochroa Californica, Santa Clara County. Cenonympha Californica, Santa Clara County.
Satyrus alope, var. boöpis, Santa Clara County.
Thecla melinus, Santa Clara County.
Chrysophanus helloides, Santa Clara County.
Lycana antiacis, Santa Clara County. DEAMER, W. W., Berkeley.—Heliz arrosa, from Marin County, California. Exchange, By.—Papilio chresphontes, Eastern States.

Pieris rapæ, Eastern States. Colias meadii, Eastern States. Terias nicippe, Eastern States. Terias liza, Eastern States. Terias delia, Eastern States. Argynnis diana, Southern States. Argynnis Aucastis, Northern States.

Euptwia hegesia, Southwestern States.

Melitza phaeton, Eastern States.

Melitza nycteis, Northern States. Metitæa Ismeria, Southern States. Dimonitis ursula, Middle States.

Dimonitis ursula, Middle States.

Apatura celtis, Boisd., Southern States.

Apatura clyton, Boisd., Atlantic States.

Debes portandia, Fab., Northern States.

Neonympha canthus, Boisd., Northern States.

Lycana Lygdamus, Doub., Michigan. Neonympha canthus, Boisd., Northern States.
Lyczna Lygdamus, Doub., Michigan.
Paphia troglodyta, Fab., Arizona.
Lyczna Shasta, Ewd., California.
Lyczna melissa, Edw., Arizona.
Lyczna melissa, Edw., Arizona.
Lyczna marina, Reak., Southern California.
Lyczna Bottoides, Behr., Colorado, California.
Lyczna Boadeius, Behr., Southern California.
Chrysophanus Thöe, Boisd., Eastern States.
Chrysophanus arota, Boisd., California.
Feniseca Tarquinius, Fab., Atlantic States.
Papilio asterias, Detroit, Michigan.
Argynnis cybele, Detroit, Michigan.
Limenitis dissippus, Detroit, Michigan.
Pyrameis Atlanta, Detroit, Michigan.
Pyrameis cardui, Detroit, Michigan.
Grapta interrogationis, Detroit, Michigan.
Eudamus tityrus, Detroit, Michigan.
Catocala concumbens, Detroit, Michigan.
Deilephila lineata, Detroit, Michigan.
Two Trochus clanculus (undulatus), Lam., Bass Straits.
Two Trochus clanculus (fagellatus), Phil., Bass Straits.
Three Australium funbriatum, Lam., Tasmania.
Four Risella melanotoma, Gmel., Tasmania.
One Nerita atrata, Chem., Bass Straits.
Three Monodonta constricta, Lam., Bass Straits. One Nerita atrata, Chem., Bass Straits.
Three Monodonta constricta, Lam., Bass Straits.
Two Cantharidus Peronia, Phil., Bass Straits.
Four Cantharidus badius, Wood., Bass Straits.
Three Cancellaria undulata, Sby., Spenceriana, Desh., Bass Straits.
One Fasciolaria coronata, Lam., Tasmania.
Twenty Nassa fasciolata, Lam., Tasmania.
Fourteen Nassa pauperata, Lam., Tasmania.
Two Natica umbilicata, Quoy., Tasmania.
Twenty Natica conica, Lam., Tasmania.
Twenty Patica conica, Lam., Tasmania. Fourteen Ancillaria marginata, Lam., Tasmania. Four Conus Novæ-Hollandæ, A., Tasmania. One Mitra glabra, Swain., Tasmania.

Seven Pteronotus triformis, Roe., Tasmania.
One Parmophorus Australis, Bl., Tasmania.
Twelve Cassis semigranosa (?), Tasmania.
One Stomatella imbricata, Lam., Tasmania.
Sixteen Triton subdistortus, Lam., Bass Straits.
Thirty Fusus ustulatus, Roe., Tasmania.
Twenty-six Cyprea angustata, Gmel., Tasmania.
One Cyprea Caputserpentis, Linn., Tasmania.
Four Cyprea arabica, Linn., Tasmania.
Two Cyprea arabica, Linn., Tasmania.
One Cyprea Lynx, Linn., Tasmania.
One Cyprea carneola, Linn., Tasmania.
One Haliotus newosa-rubra, Tasmania.
Kelsey, Frank B., Berkeley, Cal.—A fine specimen of a nest of the tree-wasp, from Roseburg, Douglas County, Oregon. Roseburg, Douglas County, Oregon.

Loucks, Miss L. M., Brentwood, Contra Costa County, Cal.—A fine living specimen of the horned lizard, Phrymosomo coronata, Blainville.

Meyer, J. H., Audubon Street, Berkeley, Cal.—The following valuable reptiles: Crotaphytes collaris, Say., Arizona; Sceloporus consobrinas, B. & G., Arizona; Chemedophorus tesselatus, Say., Arizona; Uta ornata, B. & G., Arizona.

Mouser, Dr. S. M., Berkeley Heights.—A well preserved specimen of the sunfish of the Pacific Ocean Pacific Ocean.

O'BRIEN, PAT., Rio Vista.—A specimen of the viviparous fish from the Sacramento River, Hysterocarpus Traskii, Gibbons. PALACHE, CHAS., Claremont Road, Temescal.—The following rock-boring shells: Pholadidea ovoidea, Gld.; Pholadidea penita, Conr.; Petricola carditioides, Conr.; Adula stylina, Cpr.

Palmer, Theodore, Berkeley Cal.—Nest of the trapdoor spider (Cteniza Californica).

Pond, Lieut. Chas. F., U. S. N.—A splendid sample of the Lower California Gopher Snake (Pityophis vertebralis), from Abreojos Point, Lower California.

Raymond, W. G., U. C.—The following marine shells;

Two Cancellaria sclarina. Lam., Gulf of Siam.

Three Nassa thersites, Brug., Gulf of Siam.

Four Nerita chametion, Linn., Gulf of Siam.

Two Natica maculosa, Lam., Gulf of Siam.

Four Nerita ablicilla, Linn., Gulf of Siam.

Three Nerita ablicilla, Linn., Gulf of Siam.

Riversi, Cope), from San Clemente Island, off Santa Barbara, Cal.

Sohram, Herman, Schramsburg, Nada County, Cal.—Specimen of the snake, Ophibolus getulus-Boylii, which contained in its stomach the snake Pityophis catenifer, that measured two thirds the length of its devourer. The act of swallowing was observed by several persons, among whom was Mr. Herman Schram, who presented the capdidea ovoidea, Gld.; Pholadidea penita, Conr.; Petricola carditioides, Conr.; Adula by several persons, among whom was Mr. Herman Schram, who presented the capby several persons, among whom was Mr. Herman Schram, who presented the captive to our museum.

STEARNS, E. H., Oakland.—Specimen of the batrachian, Amblystoma maculatum, found in the cellar of a house on Eighth Street, Oakland, Cal.

TURNER, A. C., '93.—A case of Chinese insects, from Hong Kong.

WALDRON, J. H., Pubelo, Colorado.—A beautiful example of tortoise (Cistudo ornata), from Colorado. TO THE DEPARTMENT OF BOTANY.

ANDERSON, C. H., '90.- Presented on behalf of Dr. W. G. Farlow, Dr. C. L. Anderson, and Prof. D. C. Eaton, Fasciculus v. Algæ Exsicatæ Americæ Borealis. This being the complete set up to date of this remarkable collection, all of which have been donated by the authors whose names have been mentioned above.

Rosa, R. H., Bandon, Oregon.—A large section of the Cupressus Lawsoniana, from Coos

County, Oregon.

TO THE DEPARTMENT OF PALEONTOLOGY.

Benton, L. E., of the U. C., Berkeley, Cal.—A specimen of a Brachiopoda that appears new, from the rocks at Stephens Creek, Santa Cruz Mountains.

Martin, G. W., Oakland, Cal.—Examples of anthracite coal, from Napa County, Cal.; some specimens of shale, and a series of the cretaceous fossil Aucella Piochii, all from same place, which determines the coal to belong to the cretaceous system.

Monks, Miss Sarah P., Normal School, Los Angeles, Cal.—Diatomaceous earth, from the rocks of Rodondo Beach, Los Angeles County, Cal.

Turkinton, R. R., Park Avenue, Alameda, Cal.,—Examples of fossil shells from China. Wright, W. G., San Bernardino County, Cal.—Some cretaceous fossils from Lower California.

# CONGRESSIONAL APPROPRIATIONS

FOR THE

MORE COMPLETE ENDOWMENT AND SUPPORT OF THE COLLEGES FO THE BENEFIT OF AGRICULTURE AND THE MECHANIC ARTS.

provisions of an Act of Congress, approved July 2, 1862.

States of America, in Congress assembled, That there shall be, and hereby disbursement. The grants of moneys authorized by this Act are made is, annually appropriated out of any money in the treasury not other subject to the legislative assent of the several States and Territories to wise appropriated, arising from the sale of public lands, to be paid at the purpose of said grants; provided, that payments of such installhereinafter provided, to each State and Territory for the more complete ments of the appropriation herein made as shall become due to any endowment and maintenance of colleges for the benefit of agriculture State before the adjournment of the regular session of the Legislature and the mechanic arts now established, or which may be hereafter estab meeting next after the passage of this Act, shall be made upon the assent lished, in accordance with an Act of Congress, approved July 2, 1862 of the Governor thereof, duly certified to the Secretary of the Treasury. the sum of \$15,000 for the year ending June 30, 1890, and an annual amount to be paid thereafter to each State and Territory shall be \$25,000, to be applied only to instruction in agriculture, the mechanic physical, natural, and economic science, with special reference to their applications in the industries of life, and to the facilities for such in struction.

Provided, That no money shall be paid out under this Act to any State or Territory for the support and maintenance of a college where a distinction of race or color is made in the admission of students; but the establishment and maintenance of such colleges separately for white and colored students shall be held to be a compliance with the provisions of this Act, if the funds received in such State or Territory be equitably divided as hereinafter set forth.

Provided, That in any State in which there has been one college estab lished in pursuance of the Act of July 2, 1862, and also in which at educational institution of like character has been established, or may be hereafter established, and is now aided by such State from its own revenue, for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the Act to which this Act is an amend ment, the Legislature of such State may propose and report to the Secretary of the Interior a just and equitable division of the fund to be received under this Act between one college for white students and one institution for colored students established as aforesaid, which shall be divided into two parts and paid accordingly, and thereupon such institution for colored students shall be entitled to the benefits of this Act

and subject to its provisions as much as it would have been if it had been included under the Act of 1862, and the fulfillment of the foregoing provisions shall be taken as a compliance with the provision in reference to separate colleges for white and colored students.

SEC. 2. That the sums hereby appropriated to the States and Territories for the further endowment and support of colleges shall be annually paid on or before the thirty-first day of July of each year, by the Secretary of the Treasury, upon the warrant of the Secretary of the Interior, out of the treasury of the United States, to the State or Territorial Treasurer, or to such officer as shall be designated by the laws of such State or Territory to receive the same, who shall, upon the order of the Trustees of the college or the institution for colored students, A bill (S. 3714) to apply a portion of the proceeds of the public land immediately pay over said sums to the Treasurers of the respective colto the more complete endowment and support of the colleges for the leges or other institutions entitled to receive the same, and such Treasbenefit of agriculture and the mechanic arts, established under the urers shall be required to report to the Secretary of Agriculture and to the Secretary of the Interior, on or before the first day of September of Be it enacted by the Senate and House of Representatives of the United each year, a detailed statement of the amount so received and of its

Sec. 3. That if any portion of the moneys received by the designated increase of the amount of such appropriation thereafter for ten year officer of the State or Territory for the further and more complete enby an additional sum of \$1,000 over the preceding year, and the annual dowment, support, and maintenance of colleges or of institutions for colored students, as provided in this Act, shall by any action or contingency be diminished or lost, or be misapplied, it shall be replaced by arts, the English language, and the various branches of mathematical the State or Territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to such State or Territory; and no portion of said moneys shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation, or repair of any building or buildings. An annual report by the President of each of said colleges shall be made to the Secretary of Agriculture, as well as to the Secretary of the Interior, regarding the condition and progress of each college, including statistical information in relation to its receipts and expenditures, its library, the number of its students and professors, and also as to any improvements and experiments made under the direction of any experiment stations attached to said colleges, with their cost and results, and such other industrial and economical statistics as may be regarded as useful, one copy of which shall be transmitted by mail free to all other colleges further endowed under this Act.

> SEC. 4. That on or before the first day of July in each year after the passage of this Act, the Secretary of the Interior shall ascertain and certify to the Secretary of the Treasury as to each State and Territory whether it is entitled to receive its share of the annual appropriation for colleges, or of institutions for colored students, under this Act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of the Interior shall withhold a certificate from any State or Territory of its appropriation, the facts and reasons therefor shall be reported to the President, and the amount involved shall be

kept separate in the treasury until the close of the next Congress, order that the State or Territory may, if it should so desire, appeal Congress from the determination of the Secretary of the Interior. the next Congress shall not direct such sum to be paid, it shall be con ered into the treasury. And the Secretary of the Interior is herely charged with the proper administration of this law.

SEC. 5. That the Secretary of the Interior shall annually report Congress the disbursements which have been made in all the States and Territories, and also whether the appropriation of any State or Territories

has been withheld, and if so the reasons therefor.

SEC. 6. Congress may at any time amend, suspend, or repeal any President Horace Davis and Rev. Horatio Stebbins: all of the provisions of this Act.

# GEOLOGICAL SURVEY MATERIAL.

University of California, Berkeley, January 14, 1890.

GENTLEMEN: In accordance with your request, we, the undersigned, have examined the material formerly belonging to the California State Geological Survey, and now at Berkeley, and we append to this report a complete inventory of all this material now held in trust for the State by the Regents of the University. The collections of the survey having been declared the property of the University by the "Organic Act," approved March 23, 1868 (see Regents' Manual, p. 41, Sec. 24), do not fall within the scope of your inquiry.

The material inventoried may be classified as follows:

I. Printed reports and maps of the State Geological Survey.

II. Stereotyped plates of text and illustrations of the above reports.

III. Manuscripts, notes, maps, and drawings.

IV. Instruments and accouterments.

All this material was delivered to the Secretary of the Board of Regents in 1874. Secretary Stearns, in his report to the Board of Regents for the year ending May 31, 1875, writes: "We received the material without an inventory; it arrived and was stored at the University before the Secretary's office was moved to Berkeley, and has been placed so as to insure its preservation."

The printed reports and maps of the Geological Survey are kept for sale by the Board of Regents in accordance with the Act of 1874. These reports and maps are now contained in boxes Nos. I to XIII, stored in the University Library, and also parcels Nos. 113 to 119, inclusive, now stored in the Secretary's office. The total amount received from the sale of these reports and maps, in fifteen years, has been only \$1,521 16, and it has steadily diminished in amount from \$335 in 1874 to \$24 50 in

In addition to the articles inventoried, there were originally a number of lithographic stones of maps. These stones belonged to the engraver, but the lithographs were preserved at the expense of the Board of Regents. The following extract from the minutes of the Board will show how they were disposed of (Minutes, Vol. V, p. 253, May 23, 1884):

Regent Winans presented the following report: The committee appointed to consider and report upon the advisability of continuing the insurance upon or the purchase of certain lithographic stones in the possession of Julius Bien, of New York, beg leave to

report that it is not advisable to continue the insurance nor to purchase the stones.

This report is based upon the opinion of the State Engineer, that the work is inaccurate and not correct to date.

W. T. WELCKER. Superintendent Public Instruction. W. T. REID.

On motion, the report was adopted.

The instruments have been turned over to the care of the Departments. of Civil Engineering, Chemistry, and Physics, where they have been in

SECRETARY TO THE BOARD OF REGENTS.

133

constant use for the instruction of students and the carrying on by law; provided, that said republication shall be done without cost to the State; proinvestigations. The value of these instruments is, according to the cost of publication, shall be paid into the State Treasurer and by him credited to the
appended inventory, about \$995, and their loss would seriously cript School Fund of the State. these departments unless they were replaced with new ones by the Boal of Regents.

ANNUAL REPORT OF THE

In the way of accouterments, there were received two saddles, t mules, one tent, a rifle, and a shotgun. The saddles and tent have rott long since, and the mules were sold by order of the Board several year ago. The firearms remain in the Secretary's office.

The manuscripts, notes, maps, and drawings are contained partly boxes Nos. XIV to XVII, inclusive, now stored in the library, and part in bundles numbered 1 to 112, and 120 to 151, in the Secretary's office This material is in bundles, rolls, and loose sheets of all sizes and co received.

Most of this material is of no value whatever. It is often without any of the articles from the University Library building. indorsement, or notes, or other means of identification. Much of In order that this may be more effectually carried out, we further any kind, would prove useful to any person intending to go over Librarian before they are opened for public inspection and use. same ground, as furnishing suggestions from which to outline a plan Your committee would further recommend that the Legislature should examination.

able such of this material as has a value?

as follows:

### ARTICLE 85.

SECTION 1. It shall be the duty of the State Geologist to deliver to the President the University of California, at Berkeley, in this State, all instruments, accounterment mit our report. the University of Camornia, at Derkeiey, in this Breach, an investigation furniture, property, maps, books, drawings, manuscripts, notes, engravings, lithograph furniture, property, maps, books, drawings, manuscripts, notes, engravings, lithograph stones, woodcuts, field notes, and other material of every description and nature beld ing or appertaining to the Geological Survey of California; such surrender and delive to be made without delay.

### ARTICLE 86.

SEC. 2. The Regents of the University of California shall safely keep and preserve, the said University, all the property and material referred to in section one of this A until such time as the Legislature may direct otherwise.

### ARTICLE 87.

SEC. 3. The sum of five thousand dollars is hereby appropriated out of any money the General Fund not otherwise appropriated, to pay the necessary cost of arrangil packing, transporting, and delivering the said property and material; and the Cortoller shall draw his warrant or warrants for such purpose, not to exceed said sum five thousand dollars, when directed to do so by the State Board of Examiners, and Treasurer shall pay the same.

### ARTICLE 88.

Sec. 4. The Regents of said University shall keep on hand and offer for sale all wines of reports and maps published by said Geological Survey; they may also, as so as the present supply of reports and maps is exhausted, cause any portion of the said to be republished and sold at the prices now provided or that may hereafter be provided

SEC. 5. This Act shall take effect immediately.

From this it appears: "Sec. 2. The Regents of the University of California shall safely keep and preserve, at the said University, all the property and material referred to in section one of this Act, until such time as the Legislature may direct otherwise." It is evident, therefore, that only an Act of the Legislature can authorize the withdrawal of any of this property from the University.

In view of this restriction, and in order that the manuscripts, notes, maps, and drawings of the Survey may be accessible for use and reference, your committee recommends that they should all be placed in the ditions. Your committee has in each case restored all articles invescustedy of the Librarian of the University as a library of reference, to toried to their original packages and numbered them on the outside which any responsible citizen of the State may have access, under the red ink. They are apparently in the same condition in which they we same rules which govern access to other reference works of value in the library; provided, that no person whatever shall be allowed to remove

consists merely of tracings and reductions from published maps, whit recommend the construction of a sugar-pine or redwood case, with deep have been superseded by later and more accurate work. There apigeon holes and shelves, in which the rolls may be safely stored under some original maps, which are of value, although most of this materical and key, in the order given in our inventory, or any other which has already been published by Professor Whitney. There are other paper the Librarian may prefer to make for himself. Also, that a rubber particularly some partly finished geological and topographical man stamp with the device, "Cal. Geological Survey Material," be procured, which, although incomplete and often without indorsement or notes and that each and every article, however small, shall be stamped by the

be petitioned to transfer absolutely to the Board of Regents all the We come, then, to the question: What is the best way to make avail property of the State Geological Survey, which they now hold in trust, so that it may be used according to their best discretion. If this were The Act to provide for the preservation of the material of the Galdone, it would be possible to use for purposes of exchange with other logical Survey of California, which was approved March 27, 1874, real scientific bodies, the publications of the Survey, for which there is now a constantly diminishing sale, and many valuable works would be secured thereby, which it is very difficult to obtain by purchase.

With these recommendations we beg leave, most respectfully, to sub-

J. H. C. BONTÉ, Secretary of the Board of Regents. JOSEPH LE CONTE, Dept. Geology and Natural History. FRANK SOULÉ, Dept. of Civil Engineering. SAMUEL B. CHRISTY. Dept. Mining and Metallurgy. A. WENDELL JACKSON, Dept. Mineralogy, Petrography, etc. INVENTORY OF MATERIAL OF THE STATE GEOLOGICAL SURVEY STORED IN THE UNIVERS LIBRARY, DECEMBER 23, 1889.

### (Boxes marked in Roman numerals in blue pencil.)

### A. Publications. (Held for sale.)

I-IV. Four boxes containing Ornithology, Vol. I, in sheets.
V-VI. Two boxes, with 80 and 88 copies Paleontology, Vol. I; stitched, in good condition VII. One box containing 100 copies Paleontology, Vol. I; stitched, in good condition. VIII. One box containing:
 Paleontology, Vol. I; 79 copies, stitched, in poor condition.
 Paleontology, Vol. I; 1 copy, stitched, in poor condition.
 Paleontology, Vol. I; 2 copies, bound, in poor condition.
 One box containing Yosemite Guide Book, in bundles. IX. One box containing Yosemite Guide Book, in bundles.

X. One box containing:

Ornithology, Vol. I; 22 copies, cloth, in good condition.

Ornithology, Vol. I; 17 copies, cloth, in fair condition.

Ornithology, Vol. I; 17 copies, cloth, in bad condition.

Paleontology, Vol. I; 4 copies, cloth, in good condition.

Paleontology, Vol. I; 4 copies, cloth, in fair condition.

Paleontology, Vol. II; 1 copy, cloth, in good condition.

Paleontology, Vol. II; 1 copy, cloth, in good condition.

XI. One box containing Yosemite Guide Book, in bundles.

XII. One box containing Yosemite Guide Book, in bundles, and a few in cloth.

### B. Stereotypes of Publications.

Fifty-four unmarked boxes, with plates of text. Three unmarked boxes, with plates of illustrations.

### C. Miscellaneous.

XIII. One box containing nineteen copies of mounted map of Yosemite Valley a adjacent region. Hoffman & Gardner; 1863-7. (For sale.)
XIV. One box containing Coast Survey tracings of San Francisco Bay.
XV. One box containing thirty barometer tubes; some broken.
XVI. One box maps; Wackenreuder's map of New Almaden; printed.
County adjacent to San Francisco Bay, hand-colored for geology; no indom XVII. Map of San Joaquin County, 1870; Jno. Wallace, surveyor; printed.
Map of Amador County, 1866; J. M. Griffith, surveyor; printed.
Map of Butte County, 1862; J. S. Henning, surveyor; printed.
Map of California, 1852; C. D. Gibbs, surveyor; printed. (Rare.)
Map of region adjacent to Yosemite Valley; mounted.

INVENTORY OF MATERIAL OF CALIFORNIA GEOLOGICAL SURVEY STORED IN THE SEC TARY'S OFFICE, DECEMBER, 1889, AND JANUARY, 1890.

(Articles marked in red ink with Arabic numerals.) 1. Minor survey MS., viz: Shorthand memoranda on reëstablishment of survey.
Rough pencil sketch of Stranahan's, Wrights Ferry, and Table Mountain. Rough pencil sketch of Heaton, Sierra County. Rough pencil sketch of near You Bet.
Rough pencil sketch of Mooneys to You Bet.
Rough pencil sketch of Little York.
Memoranda. Le Conte's notes (?). Miscellaneous pencil notes. Colors used to designate formations in ancient auriferous gravel channels. Pencil calculations of contents of O'Brien's mine. (7) Fench calculations of contents of O Brief s infine.
(k) Barometer observations, Lake Tahoe.
(l) Pencil sketches of blank forms for water, ditches, etc.
(m) Empty envelope with memoranda on outside of maps and tracings.
(n) Notes on triangulations, Gold Run and Smartsville.
(n) Two photos. Excitonations of the content of t

Two photos: Emigrant Gap Tunnel and Bear Valley. Memoranda of trips made in 1862.

2. MS. by Bowman on auriferous gravels.

Envelope containing tracings, indorsed, "of no value;" seventy-six in all, some on tracing paper, some on tracing cloth, mostly without indorsement or notes, legend, or any other means of identification.
 Bowman's rough field notes of Coast Region:

 Livermore.
 Napa.
 Mission to Ocean.
 Mr. The Inner Gate.

 III. Mr. Diablo.
 VI. The Inner Gate.
 Coaster M.D. Coastellogue of the Coaleging Survey of California, original MS.

II. Napa. V. Mission to Ocean.
III. Mt. Diablo. VI. The Inner Gate.
J. G. Cooper, M.D.; Conchology of the Geological Survey of California; original MS.
Canals (ditches?) between Merced and Tuolumne and up to the Yosemite Valley and

Big Oak Flat; two tracings.

Lists of Camps, 1860 to 1863, and itinerary, 1860. The camp lists are the only means of identification of a large amount of valuable specimens collected by the Survey and belonging to the University.

Map of C. P. R. R. Cisco to Truckee, with topography; 1,600 feet to 1 inch.

Route tracing, Roseville to Shasta.

9. Route tracing, Roseville to Shasta.
10. Tracing of Central Nevada.
11. S. P. R. R. Routes through Panoche and Pacheco Passes.
12. Tracing C. P. R. R. Auburn to Colfax; 100 feet to 1 inch; topography.
13. Railroad tracing without indorsement.
14. Tracing vicinity east Humboldt Mountains.
15. Map of Monterey and vicinity; geologically colored.
16. Map of Corral Hollow; no legend.
17. Map of vicinity of Monterey; valuable.
18. Printed map of U. S. Territories from Mississippi River to the Pacific; ordered by Jefferson Davis 18532, with scanty geological notes (colored) of little geological value.
19. Tracings of route from Grass Valley to Downieville; Amos Bowman, 1871.
20. Forty-one tracings of patented claims of California gold mines; by Amos Bowman, 1872.

Traverses of roads from Nevada City; scale 1 inch to the mile; Alfred Craven.
 Thirty-eight road tracings, by Amos Bowman.
 Rough pencil tracing of North Bloomfield Mine, by Bowman; also of part of Sierra

County.

24. Three Nevada County road tracings, by Amos Bowman.

25. Original plattings of Inyo and White Mountains, by C. F. Hoffman. Topography of Owens Lake and Salinas Valley.

26. Original plattings of Inyo and White Mountain trip; C. F. H., 1870, vicinity of Mono

Lake.

27. First plattings of Clear Lake.

28. Geological plan and section Spanish Peak gravel deposit, by J. A. Edman.

29. Map of route from Carson City to Humboldt Mines; August, 1862.

30. Tracing official township lines, San Joaquin Valley.

31. Four tracings official township lines, from Land Office maps.

32. Four tracings, by Amos Bowman. 33. Tracings routes and railroads, by Amos Bowman.

34. Descriptions of boundaries of various counties in California.

Tracing "Goddard's Sonora Pass (from?), original."
Seven sheets of plattings and triangulations, by Bowman & Pettee; vicinity of Smartsville and Little York.

37. Nine rough tracings, by Bowman, in vicinity of Nevada City.

38. Five tracings and five sheets, by Amos Bowman, mostly incomplete sections, in a rough form, of Pliocene rivers.

39. Original maps Tp. 16 (or 17?) N., R. 12 E. Crystal Lake, Placer and Nevada Counties; little detail.

ties; little detail.

Tp. 16 (17?) N., R. 13 E.; little detail; near Cisco.

Tp. 16 N., R. 9 E.; little detail.

Tp. 16 (17?) N., R. 14 E.; little detail; near C. P. R. R; including Lytton & Finney's Camp and Palisade Lake.

Tp. 16 N., R. 5 E. Geography and Geology (?). Mouth of Yuba River; Amos Bowman, 1870.

Tp. 16 N., R. 6 E. Well executed topography; vicinity of Smartsville; no indorsement

Tp. 16 N., R. 7 E. Contour map, with shading; some detail. Squirrel Creek and Penn Valley.

Tp. 16 N., R. 8 E. Original map, Grass Valley and Nevada City; contours and

10. 10 K., K. 8 E. Original map, Grass variey and Nevada City; contours and some shading, in detail.

Tp. 15 N., R. 5 E. Rough map in pencil; some contours and a little shading.

Map of Grass Valley.

41. Thirty-six tracings of townships, etc., by Bowman and others; without indorsement.

42. Five miscellaneous tracings, by Bowman & Wakenreuder.

Three sheets of rough notes of Pliocene channels of the Yuba, of little value.

43. Eleven copies of township maps, from Government surveys.

44. Eleven fragments of original plattings of Mount Diablo Range. Marked "Valuable;" in had condition.

in bad condition.

45. MS. tablings of roads in Nevada County. "Surveyed by Bradley."
46. Seven printed county maps (Cal.); very bad condition.
47. Six fragments of colored field notes (geological); vicinity of San Francisco Bay.

48. Miscellaneous collection of tracings, etc.; reductions from existing maps to a sca of six miles to the inch.

Tracing proposed line of Chico and Humboldt road; badly torn.

Brush topography between Yosemite Valley and Mono Lake; marked, "First trinot reliable for detail."

Goddard's original map topography of Sonora Pass and Mokelumne Hill; market "Worked up.

52. Original plats Sierra Nevada, Mount Lyell and Mount Whitney; two sheets and to tracings; triangulations, but few details.

53. Tracing of topography of the boundary of Oregon and California, under Commissioner Wilson, General Land Office; brush topography.

State of Nevada, tracings; reduction to eighteen miles to the inch.
Tracing, Del Norte Copper District.
Tracing, coast line, near San Diego, and reduction of Bay of San Francisco.
Tracings, Canals of South Fork of the American River, Placerville.
Tracing (brush topography) of region south of Mokelumne River.

- Tracing of triangulations of vicinity of Lake Bigler (Tahoe); brush topography;

- Hand-colored geological map, vicinity Monterey; no legend.
  Hand-colored geological map, vicinity Corral Hollow; no legend.
  Hand-colored geological section artesian well, near Stockton; no indorsement.
  Map of Cosumers and Michigan Bar Canal, through El Dorado, Amador, and Sacn mento Counties, Cal.; G. F. Deetken, C.E.

Holt's map California and Nevada; 1869.

Holt's map California and Nevada; 1869.
Report on general characters and products of portions of Southern Cailfornia, by J. Cooper, M.D.; thirty-five pages MS.
Report on explorations of islands off the southern coast of California, by J. Cooper; twenty-eight pages MS.
Report of zoological collections of the survey, by Cooper; twenty-eight pages MS.
Eight pages MS. Geographical distribution north range of West Coast birds, Alask Thirty pages MS. List of Reptiles and Fishes.
Printed copy Geological Survey of California.
Geographical catalogue of the Mollusca.
Smithsonian catalogue, North American Mammals.
Smithsonian catalogue, North American Birds.
Geological Survey of California catalogue, Invertebrate Fossils, West Slope Units States; Part I. J. G. Cooper. Printed with notes.
Three tracings, Sonora Pass road.
Original platting, topography of vicinity of Angels Camp. C. F. Hoffman.

Original platting, topography of vicinity of Angels Camp. C. F. Hoffman. Two tracings, Nevada County, from Sacramento to Marysville, to Lake Bigler a

- Original map, with brush topography, San Buenaventura County and Sulph Mountain. (Oil region.) A. N. Wilson.
  N. and S. section Pilot's Peak to Knights Ferry. H., 2 m. to 1 in.; V., 800 feet to 1

Two tracings, Nevada County, etc. Atwood.
Upper Mariposa Big Trees; two original maps; 1867.
Five original maps of Hetch Hetchy Valley and Tuolumne Cañon and vicinity unfinished.

Original plattings, near Clear Lake; in pencil. W. M. Gabb.
Vertical section profiles, Marysville Buttes to Mount Davidson, with elevations.
Plans of Princeton Mills, Mariposa County, and three other miscellaneous plans.
Feather River, Plumas County; meandered by Keddie; Crescent Mills to Orovill Sketches, Lander and Nye Counties, Nevada. Read and Barker.
Six tracings from maps of Arizona; compiled in Williamson's office in 1886. Use

in Pacific States map.

Boundary between Plumas and Sierra Counties, by A. W. Keddie.

Miscellaneous profiles; no legend.
Old topographical sketch of the Washoe region.
Tracing of surveys near Rancho Santa Ana, Los Aquillas, by W. F. Lewis.
Reduction of U. S. surveys near Georgetown and Michigan Bluff, to scale of half inch to one mile. C. F. Hoffman. Marked, "Valuable; not worked up."

Geological section in San Mateo County.

Ditches along N. Yuba and near Camptonville; one tracing.

Three fragments of printed maps, vicinity of San Francisco Bay, with some geological cal notes.

Township tracings, vicinity of Auburn.

Miscellaneous memoranda, mostly in shorthand.

Small "Specimen Maps."

100. Approximate contours of lower portion of canon of Strawberry Valley, site

proposed dam and reservoir.

101. Tracings from Central California map, made for Pacific States map, 1866.

102. Sonora Pass. Goddard. Marked, "Worked up."

103. Survey boundary line between California and Nevada; scale, six miles to the includes; by Butler Ives, Com. Nev. Ter.; J. F. Houghton, Surveyor-General of California and Nevada; scale, six miles to the includes; by Butler Ives, Com. Nev. Ter.; J. F. Houghton, Surveyor-General of California and Nevada; scale, six miles to the includes of the control of t nla; J. F. Kidder, engineer in charge of survey.

104. Wilson and Fohr's map of Nevada; corrected. 105. Gravel mining region of Sierra Nevada, vicinity of Marysville, Nevada City, etc.; original of map already published by Professor Whitney.

Geological map of California; partly colored.
Gravels of Sierra Nevada; general map; well executed.
Reduction of Amador County maps.

109. Plattings of Desert Creek.

110. Tracing geological map, Mono Lake to Monitor Mountains.
111. Tracing geological map, Walker River region; slight notes.
112. Partly colored geological map of Lower California.

113. One hundred and twenty-five copies, thin paper, S. W. cor. maps Central California. (Held for sale.)

One hundred and thirty-five copies, thin paper, S. E. cor. maps Central California. (Held for sale.)

115. Forty-six copies, thin paper, N. half maps region of San Francisco Bay. (Held for

116. Fifty-one copies, thin paper, S. half maps region of San Francisco Bay. (Held for

117. Ninety-six copies, thick paper, S. W. cor. maps Central California. (Held for sale.) 118. One hundred and one copies, thick paper, S. E. cor. maps Central California. (Held

for sale.) 119. Seven copies Geological Survey maps of California on thick paper; 1873. (Held for

120. Bundle of thirty-seven fragments or mutilated copies of printed maps.

Original (?) map, Monterey to Santa Barbara Channel, by Geological Survey of West Coast of California.

Bundle of forty-four miscellaneous printed maps; mostly duplicates, and many mutilated.

Stearns on Upper Tuolumne Cañon; several copies; printed. North Pacific Ocean Coast Chart, 1849. E. & G. W. Blunt, N. Y.

125. Humboldt County map, 1865. Doolittle. Mounted.
126. Mounted map of region forty miles around San Francisco Bay. Ransome; 1860.
127. Britton & Rey's map of California; third edition, showing routes of the Geological

128. Map of copper region, Del Norte County. R. B. Randall; 1863.
129. Copper mines, Calaveras County. Handy & Wallace; 1864.
130. Map of Lower Oregon and Upper California. Thomas Tennent; 1853.
131. Geological map (no geology) of California, by Whitney; thirty-six miles to one inch.
132. Las Mariposas estate, Max Strobel, engineer; with veins marked.

Lot of fragments of miscellaneous maps. Land office map of California and Nevada; 1866,

135. Cravens' work on Sweetwater Mountains; marked "Worked up on Central Map."

136. Photograph of map of Mount Diablo region.
187. Three tracings; two of Mokelumne River, and one of Humboldt River; latter badly

138. Nineteen photographs, illustrating Hayden's Survey of the Territories.

139. Two photographic portraits.

140. Photo of topographical map of Eureka Lake Water Company's Improvements, 1863, by H. Hochholzer.

Geological sketch map, very rough, with no means of identification, possibly vicinity of Washoe Peak.

of wasne Feak.

142. Map of property of Tide Land Reclamation Company. J. T. Gibbes; 1869.

143. Barometrical and thermometrical profiles at Smartsville.

144. Thirty-two U. S. Coast Survey maps of coast lines in California and Oregon.

145. County map, Amador County. J. M. Griffiths; 1866.

146. Sheet with some triangulations; unknown locality; no notes.

147. Description of panorama from summit of Mount Davidson.

148. Tracing in vicinity of Lake Mono.

Pencil sketch of coast line.

Township sketch in vicinity of Honey Lake.

151. Map of Comstock Mining District, marked "U. T." Sherwood & Dewey; no date; torn in half.

LIST OF INSTRUMENTS RECEIVED FROM THE CALIFORNIA GEOLOGICAL SURVEY, AND NOW IN USE IN THE DEPARTMENTS OF CIVIL ENGINEERING, PHYSICS, AND CHEMISTRY.

Seven Greene's mountain barometers, No. 12, at \$60	\$420 00
Seven sling cases for same, at \$10	
One tripod for suspending same	
Two aneroid barometers, at \$35	70 00
One mountain transit, at \$325  Two magnetic compasses, at \$50	100 00
Total	4005 AA
* Out	·

In the Secretary's office, one rifle and one shotgun.  $10^{14}$ 

#### NOTES ON THE LICK ASTRONOMICAL DEPARTMENT OF THE UNIVERSITY OF CALIFORNIA

#### PERSONNEL OF THE LICK OBSERVATORY.

The organization of the Lick Observatory is:

HORACE DAVIS, LL.D.	President of the University.
EDWARD S. HOLDEN, LL.D	Director and Astronomer. Astronomer
JOHN M. SCHAEBERLE, C.E. J. E. KELLER, A.B.	Astronomer.
E. E. BABNARD, A.M. A. J. BURNHAM	Astronomer.
John McDonald	— Machinist
JOSEPH KOBAN	Janton
CHRIS. McGUIRE HUGH KENNEDY	

#### VISITORS TO THE OBSERVATORY.

The following regulations for visitors to the Observatory are in force

#### HOURS FOR VISITORS TO THE LICK OBSERVATORY.

The Observatory buildings will be open to visitors during office hours every day in the year. Upon their arrival, visitors will please go at once to the visitors' room and regis ter their names.

An hour or so can be profitably occupied in viewing the various instruments, and the rest of the stay can be well spent in walks to the various reservoirs, from which magnif cent views of the surrounding country can be had. At least an hour and a half of day light should be allowed for the drive from the Summit to Smith Creek. There are n hotel accommodations at the Summit.

#### Admission of Visitors at Night.

For the present, visitors will be received at the Observatory to look through the great telescope every Saturday night, between the hours of seven and ten, and at these times

Whenever the work of the Observatory will allow, other telescopes will also be put:

whenever the work of the Observatory will allow, other telescopes will also be put the disposition of visitors on Saturdays between the same hours (only).

At 10 r.m. the Observatory will be closed to visitors, who should provide their own corveyance to Smith Creek, as there is no way of lodging them on the mountain.

It is expected by setting apart these times for visitors (which allow freer access to the Lick Observatory than is allowed to any other observatory in the world) that all interest the control of t ested may be able to arrange their visits in conformity to them; and that the remaining hours of the week will be kept entirely uninterrupted, in order that the Astronome may do the work upon which the reputation and the good name of the Observatory e tirely depend.

About seven thousand persons per year visit the Observatory. Thos who come in the daytime are shown through the various buildings, an the uses of the different instruments are explained to them. Whenever the sky is clear they are shown a planet or a star (in the daytime through the 12-inch equatorial. On Saturday nights the number of vis itors ranges from forty to two hundred and fifty. Each person is show the most interesting celestial objects through the 36-inch and the 19

inch equatorials. The whole force of the Observatory is on duty at this time, and as long as visitors remain.

The Senior Classes in Astronomy, in various California Colleges, have been specially invited to visit the Observatory on special evenings set apart for them.

Lectures by the Astronomers have been given at various places. The Astronomical Society of the Pacific (which now has about two hundred and fifty members) holds three meetings a year at Mount Hamilton.

In these (and other) ways the Lick Observatory is made directly useful to the public of California, and it cannot fail to have an important place in the intellectual advancement of the State and of the whole

.This is not the place to speak of the more strictly scientific activity of the institution. It may not be inappropriate, however, to state that since June 1, 1888, the Astronomers of the Observatory have printed more than one hundred and forty separate memoirs and articles in the various scientific journals.

#### METEOROLOGICAL OBSERVATIONS AT MOUNT HAMILTON.

In order to exhibit the nature of a severe winter at Mount Hamilton, I select the following:

METEOROLOGICAL OBSERVATIONS FOR THE MONTHS OF NOVEMBER AND DECEMBER, 1889, AND JANUARY AND FEBRUARY, 1890.

(From November first to fifteenth, the weather was mostly clear or fair. The present record commences with the sixteenth. The mean annual barometer is 25.766 inches.)

•	Mean	Rain or		NTY-FOUR NG AT NOON.	
DATE.	Daily Ba- rometer— Inches.	Melted Snow— Inches.	Maximum Velocity of the Wind— Miles.	Total Move- ment of the Wind- Miles.	Remarks.
November 16, 1889	25.81		60	159	Clear
November 17, 1889	25.77		50	142	Fog.
November 18, 1889	25.61	.73	37	542	Rain
November 19, 1889	25.80	.91	28	382	Rain
November 20, 1889	25.82	1.66	17	259	Rain
November 21, 1889	25.87	.15	24	312	Clear
November 22, 1889	25,69	.14	30	638	Fog.
November 23, 1889	25.77	.60	28	282	Cloudy
November 24, 1889	25.85		10	119	Clear
November 25, 1889	25.95		30	285	Clear
November 26, 1889	25.81		33	564	Fair.
November 27, 1889	25,63		60	880	Cloudy
November 28, 1889	25.58		60	821	Cloudy
November 29, 1889	25.60	.06	50	841	Cloudy
November 30, 1889	25,60	.21	33	510	Cloudy
Sums		4.46			

			FOR TWE	NTY-FOUR	
	Mean Deily Rea	Rain or Melted		· ·	_
DATE.	Daily Ba- rometer— Inches,	Snow— Inches.	Maximum Velocity of the Wind— Miles.	Total Move- ment of the Wind- Miles.	Remarks.
December 1, 1889	25.57	.70	26	772	
December 2, 1889	25.71	.34	33	767	Fog.
December 3, 1889 December 4, 1889	25.70 25.57	.29 .63	30 43	326 756	Fog. Rain
December 5, 1889	25.52	.53	60	756 775	Rain.
December 6, 1889	25,49	1.01	37	561	Rain.
December 7, 1889	25.71	1.50	50	736	Rain and fog
December 8, 1889 December 9, 1889	25.62 25.82	.94 .21	18 37	290 503	Rain Fog
December 10, 1889	25.60	.59	50	530	Rain
December 11, 1889	25.51	.52	43	705	Rain and fog
December 12, 1889	25.56	.04	17	231	F'Og:
December 13, 1889 December 14, 1889	25.71 25.74	.17	14 17	226 164	Fog.
December 15, 1889	25.78		10	167	Clear
December 16, 1889	25.77		43	372	Cloudy,
December 17, 1889	25.72 25.60	.58	24 43	245 513	-Rain and partly clear
December 18, 1889 December 19, 1889	25.69 25.83	.08 .71	30	459	Snow.
December 20, 1889	25.79	1.53	60		Rain and fog.
December 21, 1889 December 22, 1889	25.54	.05	60		Fog.
December 22, 1889 December 23, 1889	25.45 25.31	.19 .04			Snow.
December 24, 1889	25.41	.58	<b></b>		
December 25, 1889	25.65	.78			Rain and fog Rain and cloudy
December 26, 1889	25.71	.06	22	501	Fog.
December 27, 1889	25.75	.03	· 20	254 287	
December 28, 1889 December 29, 1889	25.82 25.95	.08 .35	26 24	287 291	Rain and cloudy
December 30, 1889	25.74	.10	28	386	Fog.
December 31, 1889	25.68	.56	33	459	Rain and fog
Sums	<u>-</u>	13.19			
January 1, 1890	25,64		15	269	Fog.
January 2, 1890	25.50	.60	50		Rain
January 3, 1890	25.35				Snow.
January 4, 1890 January 5, 1890	25.39 25.57	.11			Snow. Fog
January 6, 1890	25.68	.30			Fair
January 7, 1890	25.85	.22			Clear
January 8, 1890	25.82 25.78	.14	22	412	Cloudy
January 9, 1890 January 10, 1890	25.76 25.65	.18	28	253 202	Cloudy Clear
January 11, 1890	25.82		22	342	Clear
January 12, 1890	25.86	1.29	33	445	Rain
January 13, 1890	25.85 25.83	.06	50	199 436	Fair Clear
January 14, 1890 January 15, 1890	25.83 25.66		60	482	Snow
January 16, 1890	25.58	.41	27	509	Snow
January 17, 1890	25.54	.69	30		Snow
January 18, 1890	25.67 25.84	.07			For
January 19, 1890 January 20, 1890	25.84 25.81	.05 .01			Fair
January 21, 1890	25.64	.01			Fair
January 22, 1890	25.67				For
January 23, 1890	25.65	2.09	60 62	237	Rain Rain
January 24, 1890 January 25, 1890	25.59 25.57	1.10	24	253	Rain
January 26, 1890	25.76	.11		541	Clear
January 27, 1890	25.82				Cleat
January 28, 1890 January 29, 1890	25.89 25.83	.37	·]	612 345	Fan Rain
January 30, 1890	25.86	.12	12	145	Cloud
January 31, 1890	25.88		15	183	Clea
Sums		7.93			
	<u> </u>	1	!	<u> </u>	1

	Mean		FOR TWE	NTY-FOUR ING AT NOON.	
DATE.	Daily Ba- rometer— Inches.	Unmelted Snow— Inches.	Maximum Velocity of the Wind— Miles.	Total Move- ment of the Wind— Miles.	Remarks.
February 1, 1890	25.93		12		Fair.
February 2, 1890	25.93		14	257	Fair.
February 3, 1890	25.93		13 24	110 378	Fair.
February 4, 1890	25.97		22		Clear.
February 5, 1890	25.94		19	349 311	Fair,
February 6, 1890 February 7, 1890	25.90		13	147	Clear.
	25.89		13	100	Clear.
February 8, 1890	25.83		33		Clear.
February 9, 1890 February 10, 1890	25.83		24	345	Clear.
February 11, 1890	25.96 26.05		10		Clear.
February 12, 1890	25.87		43	395	Clear.
February 13, 1890	25.67		24		Clear
February 14, 1890	25.74		37		Fair.
February 15, 1890	25.59		70		Fog.
February 16, 1890	25.37	1	22		Fog.
February 17, 1890	25.41	7	*		Snow.
February 18, 1890	25.39	12			Snow.
February 19, 1890	25.49	13			Show.
February 20, 1890	25.49	14			Snow.
February 21, 1890	25.50	9			Snow.
February 22, 1890	25.72	š			Fair.
February 23, 1890	25.67				Fair.
February 24, 1890	25,62				Fog
February 25, 1890	25.53	2			Fog and snow.
February 26, 1890	25.61				Clear.
February 27, 1890	25.81				Clear.
February 28, 1890	25.76				Fair.
Sums		66			

<sup>\*</sup>After this date the anemometer was frozen so that no record was obtained.

The total snowfall was for December, twenty-nine inches, for January, fifty-one inches, for February, sixty-six inches; or more than twelve feet of snowfall for these three months. Snow fell as late as April 18, 1890. During five days of February absolutely no connection with the outside world was possible. In the one hundred and twelve days, from November fifteenth to March eighth, the stage only came to the Observatory thirty-six times.

#### CONDITION OF THE OBSERVATORY BUILDINGS.

The severe winter of 1889-90 has been very hard upon the buildings of the Observatory. In particular all the brick work has suffered greatly. The frost has removed a great deal of the mortar from exposed brick walls, and it will be necessary to repoint all joints in much exposed portions, as well as to repaint most of the walls. Wherever the bricks were thoroughly soaked in oil before they were laid (as in the walls of the great dome and of the brick dwelling houses), the mortar and the paint has stood very well. Wherever this precaution was neglected, the walls are in a very bad condition and must be repointed and repainted, as I have said.

Main Building.—The condition of its walls is described above. Its tin roof has suffered greatly, and wherever the old lead flashings were left (as about the skylights, chimneys, etc.) there have been bad leaks,

as it was evident there must necessarily have been. The worst places have lately been repaired, but the roof will leak until all such defective arrangements are made right. This is an important matter, as the instruments and the clocks are exposed to the danger of rusting. One spot of rust on the works of a delicate astronomical instrument will ruin it.

Great Dome.—This building has stood the severe trial of the winter in an admirable manner. The movable parts must be repainted in 1890. The moving-floor and the rams and water-engines are in good condition, though they need a thorough inspection and overhauling.

The small dome is in excellent condition.

The other buildings on the summit are also in good condition. The brick dwelling house is so likewise, except for a few leaks in its roof The windmill has been twice broken by storms during 1889-90, and it

will need to be replaced shortly.

New Buildings Required.—It is very desirable to erect a woodshed 32x8 feet, at the springs, to keep the wood for the steam engine dry. One of the same size should be provided at the summit for the use of the Observatory. It would be a great accommodation to the many visitors to the Observatory if a shelter for their horses against the blazing sun could be provided.

The Tomb of James Lick.—Nothing has been done to make the sur roundings of the tomb of the generous founder of the Observatory suitable and appropriate. This matter is still in the hands of the Lick

Trustees.

#### CONDITION OF THE INSTRUMENTS.

The instruments are all in capital condition, and are all in activ use. The work spoken of in my last report (pp. 129-130), has mostly been done. There still remain the following essential matters:

First—A water wheel should be provided to wind the weight of the driving clock (six hundred pounds) of the greatest equatorial. A present this is wound by the Observer every two hours. From this severe labor he must return with steady nerves (if possible), to making delicate micrometer measurements at the telescope.

Second—The circles of the great telescope are now (and have always been so far) useless, for lack of arrangements to light them by electricity The Lick Trustees intended to provide these, but did not do so.

Third—A double image micrometer should be provided for the gress

telescope.

Fourth—A control for the driving clock of the 12-inch telescope needed.

An appropriation from the principal of the Lick Observatory Endow ment Fund should be made to cover these four items.

#### ADDITIONS TO THE INSTRUMENTS.

The National Academy of Sciences has lent to the Observatory powerful spectroscope, which will be used to investigate the spectrum of the zodiacal light.

An appropriation of \$200 has been made from the Thompson Fund of the American Association for the Advancement of Science, which

sum is to be used in the construction of a special spectroscope for the examination of variable stars.

A large eye-piece, with a field of view sufficient to take in the whole moon, has been fitted to the great telescope for the use of visitors.

The U.S. Naval Observatory of Washington has lent to the Observa-

tory a 6½-inch photographic telescope and mounting.

Hon. C. F. Crocker has authorized the construction of an equatorial mounting, to carry the Willard photographic lens, which he presented to the Observatory in 1889.

Hon. William M. Pierson, of San Francisco, has lent to the Observatory a Dallmeyer photographic lens, which will be temporarily mounted

alongside of the Willard lens.

In this way, by the gifts and by the loans of friends of the Observatory, the small deficiencies in its equipment are gradually being supplied.

#### ' POST OFFICE AT MOUNT HAMILTON.

On the recommendation of the Regents of the University a Post Office has been established at the Lick Observatory under the name of Mount Hamilton. Prof. S. W. Burnham has been appointed Postmaster.

#### SOLAR ECLIPSE OF DECEMBER 21, 1889.

In the summer of 1889 Hon, C. F. Crocker generously volunteered to bear the expense of an expedition to Cavenne, South America, to observe the total solar eclipse of December twenty-first. The Regents of the University authorized Messrs. Burnham and Schaeberle to do the work according to the programme prepared by the Director, and provided most of the instruments. The Superintendent of the U.S. Naval Observatory at Washington, Captain R. L. Phythian, U. S. Navy, was kind enough to lend to the expedition a 6½-inch photographic equatorial, and F. G. Bluin, Esq., of East Oakland, put the whole equipment of his observatory at our disposition. From his instruments a sextant was selected, and used to determine the latitude and longitude of the eclipse station.

Parties were sent to observe this eclipse as follows:

I. By the Government of the United States to Africa.

II. By the British Government to Africa.

III. By the British Government to South America.

IV. By the French Government to South America. V. By the Lick Observatory to South America.

Parties I and II failed on account of cloudy weather. Parties III, IV, and V were, on the whole, successful, though the weather was not altogether satisfactory.

From what is already known of the results, it is certain that the photographs of the Lick Observatory party are the most satisfactory of any secured at this eclipse, and this success reflects credit upon all concerned in the expedition.

The results of the work will be printed (in octavo) at the State Print-

ing Office.

GOLD MEDAL AWARDED TO THE LICK OBSERVATORY AT THE PARIS EXPO-

A gold medal was awarded to the Lick Observatory at the Paris Exposition for its exhibit of astronomical photographs.

#### BRICK RETAINING WALLS.

As recited in my previous report (page 130), the rock walls built by the Lick Trustees are rapidly crumbling into dust. They should be replaced by brick walls as soon as practicable. The slopes of the summit are gradually sinking, and they must be planted with vines, etc., to consolidate them. In places the outer edges of the summit level are from two to three feet lower than they were a year ago. This is a very practical matter, and it demands immediate attention.

#### WATER SUPPLY.

There is little to add to the complete account given in my last report (p. 130).

The springs during the winter supply twenty thousand to twenty-five thousand gallons daily, which now goes to waste for lack of storage capacity, which ought to be provided. During the summer the supply falls to four hundred gallons daily. The daily necessary expense if from one thousand to one thousand two hundred gallons. Every year the astronomers of the Observatory have been forced to use some of the stored rain water for domestic purposes. This water has passed many times through the hydraulic engines and rams, and is covered with a thick film of machine oil; and it invariably produces more or less sick ness when it is used. Under the present circumstances it must be used It is not fair to the officials of the Observatory to subject them and their families to this hardship, when the remedy (increased capacity of storage reservoirs) can be so readily and so cheaply attained.

Water Pipes, etc.—The system of under and over-ground pipes (which is several miles in extent) is being simplified and put in good condition by the workmen of the Observatory as fast as possible. The kind of simplification referred to may be understood when I say that a single valve and fifteen feet of pipe, lately inserted, saves more than fifty miles of walking to the machinist each and every year. The fire plugs and hose are regularly inspected each week.

Many of the corners have been permanently marked with iron post and this work will be continued. The Legislature should be asked for an appropriation of \$2,700 to put a continuous fence about the whole reservation (one thousand nine hundred acres).

BOUNDARIES OF THE RESERVATION.

#### GIFTS TO THE LICK OBSERVATORY.

Besides the gifts (and loans) of instruments previously mentioned the following have been received, for which the thanks of the University are gratefully returned: BRASHEAE, J. A.—Photographs.
CENTURY, Editor of—Electrotype.
HIMMEL UND ERDE—Electrotypes.
HOLDER, E. S.—Nine crayon drawings of Jupiter.
WHITNEY, R. W.—One duplicator, or copying machine.

#### PERIODICALS RECEIVED BY THE LIBRARY OF THE LICK OBSERVATORY.

A full list of periodicals received by gift or otherwise is given in my last report (page 134). This list need not be repeated here, especially as it will be fully set forth in the catalogue of the library, which will shortly be printed at the State Printing Office as an appendix to the report of the Solar Eclipse of December, 1889.

Books have been received by gift from the following persons:

. Donor,	Books.	Pam- phlets.
Auton, Dr. F	1	2
Baltimore, Peabody Institute Berlin, Minister of Public Instruction	-	2 1
Berlin Minister of Public Instruction	i	
BOVIER SELD	1 1	1 2 1 1 1
Burnham, S. W. Cambridge, Harvard College		2
Cambridge Harvard College		ī
Chicago Trustees of Newberry Library		ī
Chicago, Trustees of Newberry Library Coimbra, Universidade de		ī
Coimbra, Universidade de Cook, Joseph Cooley, N. M. Copenhagen, Royal Academy of Sciences Dames, Felix L. Ebert, Herrman Evanston, Ill., Northwestern University Friedlander, R. Greenwich, Royal Observatory of Havorford, College Observatory of Holden, E. S. Holetschek, Dr. J.		ī
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Lepzig Astronomische Gesenochatt		•
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Lyons, Observatory of	} 1	
Marin, A.		3
Monck, W. H. S.		9
Natal Observatory	1	1
Nerger, Dr. K.		. <u>-</u>
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Prime, C. S.		1 1
Purdue University		1
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Thiele, T. N.	·	
Tokyo Observatory	1 1	
Washington, Signal Service	1	
Weinek,	1	
Wien Observatory	2	
Wolf, M.	·	2
Wolf, Dr. Rudolph Zenger, Ch. V.		. 1
Zenger, Ch. V.	.	.  7
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#### SUPREME COURT DECISION.

#### IN BANK.

[Filed November 18, 1887.]

AURELIA PFEIFFER, PLAINTIFF AND APPELLANT,
vs.
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, DEFENDANT AND RESPONDENT.

This is an action to quiet title to a certain piece of land; to enjoi defendant from diverting any water from said land; and to recove damages for past diversion of such water. The action was tried in the Court below without a jury, and judgment went for defendant. Plaintif appeals from the judgment and from an order denying her motion for new trial.

The material facts in the case—omitting certain deraignments of title and other matters which need not be recited here—are these:

1. In 1865, plaintiff became the owner in fee of a certain undivide interest in "two thousand nine hundred acres or thereabouts" of mount ain or hill land in Alameda County, California. This land was a part of the Rancho San Antonio, granted by the Mexican Government in 182 to Louis Peralta, and confirmed to his sons and grantees by a patent the United States Government, dated February 10, 1877. Plaintiff con tinued to be the owner of said undivided interest until the year 187 when a certain partition suit entitled "Le Roy vs. Gwinn et al." w instituted in the proper District Court for the purpose of terminating the co-tenancy of the various owners of undivided interests in said lan and apportioning it among said owners in severalty. A judgment wa rendered in said partition suit on the twenty-first of August, 1875, h which the particular land described in the complaint in this present action, and which is designated as "Plot O," was set off in severalty plaintiff. She was put into possession of said "Plot O" by the Sheriff, and has been in possession ever since, except so far as her possession has been interrupted by defendant as hereinafter stated.

2. On August 10, 1864, Owen Simmons and wife, being also the owners in fee of an undivided interest in said two thousand nine hundre acres of land, conveyed the same to the College of California, a corporation, who remained the owner thereof until June 1, 1870, when it conveyed said undivided interest to the defendant herein, the Regents of the University of California. At the time of said conveyance by Simmons and wife to the College of California, said Simmons was in the actual occupancy of that part of said land described in the complaint which contains the springs of water about which this litigation has arisen—although he was only an owner, as tenant in common with others, of an undivided interest in the whole tract of two thousand nine hundred acres, which fact was well known to the college. After the

conveyance to the college, the latter remained in occupancy of said piece of land until its conveyance to the defendant on June 1, 1870. This particular part of the land was wet and springy. It has several springs on it, which usually sunk into the ground within short distances from their sources. In 1866 the college commenced to clear out two of said springs; and within a year or two, by excavations, etc., it developed a stream of water, which, by means of flumes, pipes, reservoirs, etc., it converted and conveyed entirely away from said undivided lands onto other lands held by said college in severalty. The college, and its successor, the defendant, continued to so divert and convey said water from 1866 until after the judgment in said partition suit in 1875, without any interference or complaint by any of their co-tenants. In developing this water, and in erecting works for its diversion, the college and the defendant expended about \$17,000. After the judgment in partition, which set off this piece of land in severalty to plaintiff, she protested against any further diversion of the water by defendant, demanded payment for it, etc. She commenced this action within a day of the expiration of five years after the issuance of the patent.

3. On the twenty-eighth day of November, 1870, the defendant executed to Mary E. Brayton a conveyance of all its interest in said undivided tract of two thousand nine hundred acres of mountain land. Said conveyance also describes three other tracts of land not involved in this controversy, and has in it the following clause: "Excepting and reserving out of and from this conveyance, and out of the premises firstly, secondly, and fourthly above described, the right of the water arising upon or flowing across the same, so far as it shall be needed for the University of California, and the right to enter upon said land for the purpose of constructing and laying the necessary pipes and making the same available, the same to be exercised in such manner as not to interfere with the use and occupation of the land for cultivation, and to do no damage to the crops thereon." Mary E. Brayton afterwards conveved to H. G. Livermore, who was made a party to said partition suit, and had set off to him a certain part of said two thousand nine hundred acres designated as "plot H." (The word "fourthly" in said clause of reservation refers to said undivided interest in said two thousand nine hundred acres.")

4. There is another fact which must be here stated, because, while it has no direct reference to the land or water described in the complaint, it has a bearing on the question, Who were necessary parties to the partition suit? Z. B. Heywood, being the owner of an undivided interest in said tract of two thousand nine hundred acres, and having entered upon the occupancy of a certain part of it called "Ramsey Ranch," on the fourth day of September, 1860, executed a deed to the President and Board of Trustees of the College of California, by which he gives, grants, bargains, sells, and quitclaims to them "the exclusive right in perpetuity to enter upon my land known as the Ramsey ranch, being a portion of the Rancho San Antonio in the county of Alameda, California. and thereon to collect and take away, with the reservations hereinafter mentioned, the waters of the various springs which open into and along the gulch and ravine, and its branches that debouch at or near the point where the present road crosses the boundary line between Sections 83 and 84, as laid down in Kellersberger's map; and also of the said springs above said ravine that rise to the southward of and run past and near my present farm house, and for the purposes aforesaid to take The reservations referred to are not material. Heywood remained own of his adjoining separate property." of said undivided interest until the commencement of said partition suf was made a party thereto; and had set off to him in severalty a part P" including the said Ramsey ranch. On the twenty-sixth day of No. 554, 11th ed.; Freeman on Co-tenancy, Sec. 198; Adams vs. Briggs Iron vember, 1869, the said President and Board of Trustees of the Colle Co., 7 Cushing, 361; Marshall vs. Trumbull, 28 Conn. 183. of California conveyed to "the State of California, represented by the Regents of the University of California," all the rights and property any) which were conveyed to the former by said deed of September 1860, executed by said Heywood as aforesaid. Neither the State of C ifornia nor the defendant was made a party to said partition suit.

5. The defendant continued to divert water from said "Plot O" from time plaintiff became several owner thereof until the trial of this prese action, and to convey the same to its University lands, which new were part of said two thousand nine hundred acres of mountain land The Court below finds that for three years and ten months immediate preceding the trial the defendant so diverted and used ten thousand gallons per day, in addition to water sold by it to others, for which received \$4,804, but it is not found how much plaintiff was injured such diversion. It appears from the findings that defendant has tak the water from only two springs on said land, and that there are se eral other springs on the land, which seem not to have been develop

or used in any way by plaintiff.

Upon these facts the Court below rendered judgment for defendant upon the sole ground—as stated in the first finding—that by the res vation in said deed from the defendant to Mary E. Brayton, and said deed of the College of California to the State of California, rep sented by the Regents of the University of California, conveying to latter the rights conveyed to the former by said Z. B. Heywood, aforesaid, the defendant and the State of California acquired a retained such interests in said two thousand nine hundred acres of la as made them necessary parties to said suit for partition; and that, n having been made such parties, the judgment in said suit setting off sa "Plot O" in severalty to plaintiff was and is void as against the defendant

In taking this view of the case we think that the Court below erre It is not necessary to discuss the question whether, if respondent h been the sole owner of the land at the time of its deed to Mrs. Brayt the reservation would have left in respondent a mere personal privile or right in gross, or an interest in the land itself capable of partition At the time of the execution of said deed respondent was the owner only an undivided interest in the land as tenant in common with appellant and others; and, as such tenant in common, it had no pow to convey to a stranger, or to reserve to itself after parting with the f the right to divert water entirely away from said land. A tenant common cannot create an easement or servitude upon the common lat

In Goddard on the Law of Easements, on pages 93 and 94, the result hold, use, occupy, and clear up so much of said land as may be properly of the authorities on the subject is correctly stated as follows: "So the and necessary for collecting said waters in basins or reservoirs, or grantor must be the sole owner of the fee. One joint owner or tenant in flooding by dams, and for canals and conduits and the laying of pipe common cannot create an easement in the common estate as against his and the right at all times to enter upon so much of said lands as the co-tenant, though probably he would be himself estopped to dispute a convenience may require for all the purposes aforesaid, and for repair grant thus made. For the same reason one tenant in common cannot, or viewing the same, and the right to protect said waters from waste when conveying his own interest in the common property, create by resdamage by such works, and in such manner as they may judge best ervation a personal and separate easement over the same for the benefit

In Boston F. Co. vs. Condit, 19 N. J. Eq. Rp. 394, it was held that "a grantee of the right to dig ores from one tenant in common cannot said two thousand nine hundred acres designated as "Plot P," said "Ple call for a partition of the premises." See also Kent's Com., Vol. 3, p.

We do not understand counsel for respondent as denying this to be the rule clearly established by the general authorities, and they cite no cases to the contrary. But they argue that, logically, the rule ought to be different in this State on account of certain decisions made by this Court (about another matter) in Stark vs. Barrett, 15 Cal. 361; Gates vs. Salmon, 35 Cal. 576, and some other cases which follow them. It was quite customary at one time for individual tenants in common of large Mexican grants to convey, or to undertake to convey, their interests in particular parts of the common land by metes and bounds, called "special locations;" and the decisions last above referred to simply held, first, that the grants of such special locations were good as against naked trespassers; and, second, that they were not absolutely void as against the co-tenants of the grantor, but were taken subject to the cotenants' right of partition of the whole tract, and might be lost to the grantee when such partition took place. These decisions are admitted to have been in conflict with many authorities of high standing, and were based, no doubt, to some extent, on equitable considerations growing out of particular circumstances; and they should not be pushed further than the limits of their express terms. But there were no questions about easements in those cases. Whatever interest the grantor undertook to convey, was all his interest or estate in the whole land described in the conveyance. There was no attempt to create or reserve a right to dig for minerals in the land, or to cut wood on it, or to take water from it, or to have a way over it—no attempt to divide up the very body of the land and distribute it around. There is nothing, therefore, in those decisions that alters the well established rule as above stated, which determines the main point in the case at bar.

Of course, the deed from Heywood to the College of California, and the deed from the latter to the respondent, or the State of California, are upon the same footing with the "reservation" in the deed from respondent to Brayton. Neither the respondent nor the State of California had an estate or interest in the land, and neither was a necessary

party to the suit for partition.

The defenses founded on appropriation, acquiescence, estoppel, and the statutes of limitations, were not maintained. The findings on those issues, as we understand it, were all in favor of appellant; and respondent has not appealed.

Our conclusion is that, upon the findings, judgment should have been rendered for appellant according to the prayer of her complaint, except as to damages—about which there is no finding. But as appellant no waives all claims for damages, there appears to be no necessity for a ne trial. The judgment is therefore reversed, and the Superior Court is directed to enter judgment for plaintiff according to the prayer of the complaint, without damages.

McFARLAND, J.

We concur:

SEARLS, C. J. THORNTON, J. McKINSTRY, J. SHARPSTEIN, J.

## APPENDICES TO THE ANNUAL REPORT

OF THE

SECRETARY TO THE BOARD OF REGENTS.

## STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

RECEIPTS.	
Revenue	\$208,271 2
D. O. Mills Endowment interest	5 090 \$
Michael Reese Library Fund interest.	3,219
University Medal Fund interest	181
Edward Tompkins Endowment interest Sales from Land Grant of 150,000 Acres	239 s 28,214 s
State fees	26,214 8
State fees Students' deposits—Chemical Laboratory	$1,\overline{288}$
Students' denositsMining Laboratory	158 1
Students' deposits—Physical Laboratory From Treasurer of United States on account of Agricultural Experiment	262
From Treasurer of United States on account of Agricultural Experiment Station Fund	18,750 (
Excess payments	1,360 6
Insurance—returned premiums	3,363
Pioche Donation interest	108 (
Rents from Palmer House	720 (
Library fines	1 j 10 d
Donation to library College of Agriculture—return on payroll for March, 1889	10 U
Bills receivable—canceled mortgage notes.	97,047
Cash balance on hand June 30, 1889	84,921 4
0404 0414100 0414100 00)	
DISBURSEMENTS.	\$453,454
Bills receivable	\$151,500 (
D. O. Mills Endowment—salary of professor	3,999 9
State fees	3,708 1 175 0
Toland Medical College—	110 0
Assessment for street improvements\$146 45	
Redemption of lot 8 34	
teuchipului ui lub	
<u> </u>	154 7
<u> </u>	241 6
Palmer House—repairs Land Administration—returned deposits	241 6 195 0
Palmer House—repairs  Land Administration—returned deposits  Revenue—rebate on land interest	241 6 195 0 460 0
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Palmer House—repairs Land Administration—returned deposits Revenue—rebate on land interest Chemical Laboratory building Salaries—Appendix No. 1 Administration—Appendix No. 2 Agricultural Experiment Stations—Appendix No. 3 College of Agriculture—Appendix No. 4 College of Chemistry—Appendix No 5 College of Civil Engineering—Appendix No. 6 College of Wechanics—Appendix No. 7 College of Mechanics—Appendix No. 7 College of Mining—Appendix No. 8 Department of Lick Observatory—Appendix No. 9 Department of Military Science—Appendix No. 10 Department of Physics—Appendix No. 11 Department of Physical Culture—Appendix No. 12 Department of Physical Culture—Appendix No. 18 Library—General Fund—Appendix No. 14 Reese Library—Appendix No. 16	241 6 195 0 18,240 4 138,217 4 15,201 1 10,849 3 6,954 2 2,936 2 2,936 2 2,936 3 435 9 681 5 4,580 7 4,580 7 2,143 4 2,143 8
Palmer House—repairs  Land Administration—returned deposits  Revenue—rebate on land interest Chemical Laboratory building Salaries—Appendix No. 1  Administration—Appendix No. 2  Agricultural Experiment Stations—Appendix No. 3  College of Agriculture—Appendix No. 4  College of Chemistry—Appendix No. 5  College of Civil Engineering—Appendix No. 6  College of Mechanics—Appendix No. 7  College of Mechanics—Appendix No. 7  College of Mining—Appendix No. 8  Department of Lick Observatory—Appendix No. 9  Department of Military Science—Appendix No. 10  Department of Military Science—Appendix No. 11  Department of Physics—Appendix No. 12  Department of Physical Culture—Appendix No. 13  Library—General Fund—Appendix No. 14  Reese Library—Appendix No. 16	241 6 195 0 18,240 4 138,217 4 15,201 1 10,849 3 6,954 2 2,936 2 2,936 2 2,936 3 435 9 681 5 4,580 7 4,580 7 2,143 4 2,143 8
Palmer House—repairs Land Administration—returned deposits Revenue—rebate on land interest Chemical Laboratory building Salaries—Appendix No. 1 Administration—Appendix No. 2 Agricultural Experiment Stations—Appendix No. 3 College of Agriculture—Appendix No. 4 College of Chemistry—Appendix No 5 College of Civil Engineering—Appendix No. 6 College of Wechanics—Appendix No. 7 College of Mechanics—Appendix No. 7 College of Mining—Appendix No. 8 Department of Lick Observatory—Appendix No. 9 Department of Military Science—Appendix No. 10 Department of Physics—Appendix No. 11 Department of Physical Culture—Appendix No. 12 Department of Physical Culture—Appendix No. 18 Library—General Fund—Appendix No. 14 Reese Library—Appendix No. 16	241 6 195 0 18,240 4 138,217 4 15,201 1 10,849 3 6,954 2 2,936 2 2,936 2 2,936 3 435 9 681 5 4,580 7 4,580 7 2,143 4 2,143 8
Palmer House—repairs Land Administration—returned deposits Revenue—rebate on land interest Chemical Laboratory building Salaries—Appendix No. 1 Administration—Appendix No. 2 Agricultural Experiment Stations—Appendix No. 3 College of Agriculture—Appendix No. 4 College of Chemistry—Appendix No 5 College of Civil Engineering—Appendix No. 6 College of Wechanics—Appendix No. 7 College of Mechanics—Appendix No. 7 College of Mining—Appendix No. 8 Department of Lick Observatory—Appendix No. 9 Department of Military Science—Appendix No. 10 Department of Physics—Appendix No. 11 Department of Physical Culture—Appendix No. 12 Department of Physical Culture—Appendix No. 18 Library—General Fund—Appendix No. 14 Reese Library—Appendix No. 16	241 6 195 0 18,240 4 138,217 4 15,201 1 10,849 3 6,954 2 2,936 2 2,936 2 2,936 3 435 9 681 5 4,580 7 4,580 7 2,143 4 2,143 8
Palmer House—repairs  Land Administration—returned deposits  Revenue—rebate on land interest	241 6 195 0 18,240 4 138,217 4 15,201 1 10,849 3 6,954 2 2,936 2 2,936 2 2,936 3 435 9 681 5 4,580 7 4,580 7 2,143 4 2,143 8

#### TRIAL BALANCE-JUNE 30, 1890.

	Dr.	Cr.
Agricultural Experiment Stations		\$1,494 20
Buildings Bills receivable	\$482,082 65	<b>4</b> =,
Bills receivable	850,140 00	
Cosh. Consolidated Perpetual Endowment Fund D, O. Mills Endowment Diplome Fund	82 014 41	
Consolidated Pernetual Endowment Fund	02,021 11	818,770 62
D O Mills Endowment		91,922 16
Diploma Fund		20 00
Edward Tompkins Endowment		
Description Engowinent		3,505 10
Excess payments		22,494 77
German Library		447 25
German Savings and Loan Society Humboldt Savings and Loan Society Lick Observatory Fund	1,341 51	
Humboldt Savings and Loan Society	151 09	
Lick Observatory Fund		90,000 00
Land Administration		1 724 940 95
Land Agent of the University	5,202 79	
Oakland Bank of Savings	7,498 60	
Land Agent of the University Oakland Bank of Savings F. L. A. Pioche Donation		2,053 22
Revenue		· 58,576 98
Michael Reese Library Fund		54,349 76
Michael Reese Library Fund State appropriations Students' deposits State University Fund State Treasurer Stote fees		2,751 25
Students, denosita		4,455 60
Otata Tinimanity Thand		102,309 84
Otate University rund	1 005 500 00	102,509 64
State Treasurer.	1,067,500 00	
		00 00
San Francisco Savings Union Security Savings Bank	39,535 11	
Security Savings Bank	32,989 09	
Toland Medical College		296 71
Toland Medical College University Medal Fund		3,313 54
Union Savings Bank	33,404 63	
Union Savings Bank Chemical Laboratory building	18,240 45	
Polmer House		478 31
Bonté, J. H. C., Secretary—Contingent Fund Caminetti, A., Patron Amador Station—Contingent Fund	486 37	
Caminetti A. Patron Amador Station—Contingent Fund	150 00	
Davis, Horace, President—Contingent Fund	200 00	
Holden, E. S., Director Lick Observatory—Contingent Fund	500 00	
Hilgard, E. W., Director A. E. S.—Contingent Fund	150 00	
Macro D. E. Betree Tulere Station Contingent Fund	150 00	
Moore, B. F., Patron Tulare Station—Contingent Fund	100 00	900 055 40
Salaries, expenses, and receipts to January 1, 1889		629,955 40
Webster, J. V., Patron Paso Robles Station-Cont. Fund	150 00	
	\$2,621,886 70	\$2,621,886 70

11 14

#### STATEMENT OF BONDS AND MORTGAGES-JUNE 30, 1890.

DESCRIPTION.	Date of Maturity.	Rate of Interest.	Par Value.	Annual Interest
Bonds.				
	Ton 0 1000		# #### EAA AA	840 500
State Capitol	Jan. 2, 1893	6	\$676,500 00	\$40,590
State of California City and County of San Francisco—	Jan. 2, 1893	6	141,000 00	8,460 (
School bonds	July 1, 1894	6	30,000 00	1,800
Park and Avenue	July 1, 1894 Jan. 1, 1898	6	50,000 00	3,000
Park Improvement	Apr. 1, 1904.	6	1,000 00	5,000
Dupont Street.	July 1, 1897	١٠	20,000 00	w t
Montgomery Avenue			22,000 00	
County of Santa Clara	July 1, 1894	7	3,000 00	210 0
Alameda School	Sept.4, 1898	6	8,000 00	480
Marin County	May 5, 1896	7	50,000 00	8,500
Tehama County		5	29,500 00	1,475
Fresno County	Jan. 1, 1898	7	12,500 00	875 0
Plumas County		6	9,000 00	540 0
Kern County	Nov.1, 1900		15,000 00	1,050 (
•	1 '			
Total invested in bonds			\$1,067,500 00	\$62,040 (
Diverted funds		6	\$79,750 00	\$4,785 (
Mortgages.				
Oakland real estate			\$88,500 00	\$5,685 (
San Francisco real estate			405,000 00	21,700 (
Merced County real estate	1		131,640 00	8,791
Stockton real estate			25,000 00	1,656 \$
Berkeley real estate			6,000 00	360 (
Alameda real estate			76,000 00	5,675
Marin County real estate			50,000 00	3,000 (
Tehama County real estate			25,000 00	1,750
Solano County real estate			23,000 00	1,610
Mendocino County real estate			20,000 00	1,400
Total investment in mortgages			\$850,140 00	\$51,627
RECAPITULATION.				
Total investment in bonds			\$1,067,500 00	\$62,040
Total investment in mortgages			850,140 00	51,627
Total investment in mortgages Diverted funds			79,750 00	4,785
Matal:		l	24 002 000 00	0110 4508
Totals			\$1,997,390 00	\$118,452

#### SEGREGATION OF BONDS AND MORTGAGES.

•	Par Value.	Interest
Consolidated Perpetual Endowment Fund Bonds	\$79,750 00 977,500 00 708,814 94 90,000 00 50,000 00 85,865 76 3,000 00 607 78 1,851 52	\$4,785 56,985 43,222 5,105 3,062 4,990 180 42 129
	\$1,997,390 00	\$118,452

## STATE TAX OF ONE CENT ON EVERY \$100 VALUATION—FOR THE YEAR ENDING JUNE 30, 1890.

October 5, 1889—Controller's warrant April 24, 1890—Controller's warrant	\$9,353 04 91,852 85
•	\$101,205 89

Dr.	UNIV	ERSITY	MEDAL 1	FUND.	Cr.
1874.			1873.		1
July 30	To cash-Medal to F.		Mar. 13.	By donations	\$2,383 68
Oct. 10	Otis To cash—Medal to J.	\$125 00	June 30. Dec. 31.	By interest	56 05 121 48
006, 10.2	M. Whitworth	125 00	1874.		
Oct. 10	To cash—Medal to F. H. Whitworth	125 00	June 30_ Dec. 31_	By interest	126 99 115 79
1875.		120 00	1875.		
July 16	To cash—Medal to T. F. Barry	125 00	June 30. Dec. 31.	By interestBy interest	114 41 114 86
1876.	_	120 00	1876.	1 -	
Nov. 30	To cash—Medal to D. B. Huntley	125 00	June 30. 1877.	By interest	119 37
Nov. 30	To cash—Medal to F.		Jan. 31. July 30.	By interest	115 13
1878.	L. Button	125 00	July 30. 1878.	By interest	112 40
Oct. 31	To cash-Medal to		Jan. 31_	By interest	106 46
Oct. 31	Theodore Gray To cash—Medal to	125 00	July 31_ 1879.	By interest	103 74
1879.	Jos. Hutchinson	128 50	Jan. 31	By interest	98 59
Aug. 31	To cash—Medal to		July 31. 1880.	By interest	100 04
1880.	Fremont Morse	128 50	Jan. 31	By interest	92 96
July 31	To cash—Medal to	Ì	July 31.	By interest	81 98
1883.	Mary Hawley	128 50	Jan. 31.	By interest	80 65
July 31	To cash—Medal to W.		July 31. 1882.	By interest	70 63
1884.	W. Deamer	125 00	Jan. 30.	By interest	71 06
Aug. 30	To cash—Medal to C.	}	July 31_ 1883.	By interest	65 58
1885.	A. Ramm	125 00	Jan. 31.	By interest	67 02
July 14	To cash—Medal to C.		July 31. 1884.	By interest	65 50
1886.	B. Wakefield	125 00	Jan. 31.	By interest	64 45
July 31	To cash—Medal to		July 31- 1885.	By interest	65 93
1887.	Frank Fisher	125 00	Jan. 31. July 31.	By interest	65 10 68 79
July 31	To cash-Medal to		1886.	By interest	08 19
1889.	Jacob Samuels	125 00	Jan. 31	By interest	67 77 66 28
May 15	To cashMedal to J.		July 31_ 1887.	by interest	00 28
1889.	E. Beard	125 00	Feb. 28. July 31.	By interest	64 97 66 11
June 30	To cash-Medal to H.		1888.	· ·	
1890.	C. Moffitt	125 00	June 30. 1889.	By interest	142 60
June 30	To balance	3,313 54	Jan. 1	By interest	116 16
[			June 30. 1890.	By interest	93 55
			June 30.	By interest	181 73
			June 30. June 30.	By Union Savings B'k. By Union Savings B'k.	60 63
			Aune of	L, Onion Dayings D K.	
	ļ	\$5,449 04			<b>\$</b> 5, <b>44</b> 9 <b>04</b>
			· <u>-</u>		

Dr.	EDWARD TO	MPKINS	ENDOW	MENT FUND.	Cr.
1874.			1872.		
Jan. 2 Aug. 14	To sundries	\$148 60 100 00	June 18. 1873.	By cash	\$100
1887.			Mar. 13.		100
Nov. 10 1888.	To cash	75 50	June 30. Dec. 31.		2 5
Aug. 31	To cash	21 00	1874. June 30.		
1889. Jan. 10	To cash	4 20	Aug. 19.	By cash	100
	· · ·	,	Nov. 14. Dec. 31.	By cash	100 9
			1875.	· · .	
	,		June 30. Dec. 11.		15 ; 125 ;
	• `	:	1876. June 80.	_*	22
				By interest	125
			1877. Jan. 31.	By interest	39
			July 31.		29
			1878. Jan. 31.	By interest	28
			Mar. 31.	By cash	125
		٠	July 31. 1879.	By interest	30
			Jan. 31.		32
			May 31. July 31.	By cash By interest	125 34
			1880. Jan. 31.		36
			June 30.	By cash	125
	,		July 31. 1881.	By interest	32
		.	Jan. 31.		37
			July 31. July 31.	By interest	32 175
			<b>1882.</b>	,	36
	·		Jan. 31. Jan. 31.		175
	,		July 31. 1883.	By interest	37
			Jan. 31_	By interest	39
•			Jan. 31. July 31.	By cash	175 41
			1884.	*	42
			Jan. 31. Feb. 29.		175
			July 31.		46
			1885. Jan. 31.	By interest	48
			Mar. 31. July 31.		175 53
			Oct. 31_		200
	•		1886. Jan. 31.	By interest	58
	,		July 31_ 1887.		60
			Feb. 28.		261
·			July 31. 1888.		66
			Jan. 31.		68 15
			Feb. 1. Mar. 1.	By cash	15
			April 1.	By cash	15 15
			June 1.		15
			July 1. July 1.	By cash	15 23
			Aug. 1.	By cash	28 15
	Amount carried for-		Sept. 1.	By cash Amount carried for-	15
	ward	\$349 30		ward	\$3,502

Dr.	EDWARD TOMPI	CINS ENDO	WMENT FU	ND—Continued.	Cr	· <u> </u>
1890.	Amount brought for-	<b>\$</b> 240 30	1888.	Amount brought for-	\$3,502	87
T 0 9A	ward To balance	3 858 15	Oct. 1.	Rycash	15	17
June 30	10 //41410011111111111111111111111111111	0,000 10	Nov. 1	By cash	15	17
•			Dec. 5.	By cash	150	ñ
	•		Dec. 5.	By cash	15	17
				By cash By cash By cash By cash By cash		
			Jan. 1:	By cash	15	17
			Feb. 1.	By cash	15	17
	•		Mar. 1.	By cash	15	17
_			April 1.	By cash	15	17
			May 1.	By cash	15	17
			May 1.	By cash	164	50
			June 1.	By cash	15	17
			June 1.	By interest	4	32
			July 31.	By cash	15	17
			Aug. 31.	By cash	16	72
	•		Sept. 30_	By cash	20	70
			Oct. 31.	By cash By cash By cash By cash By Union Savings Bank	. 8	62
			Nov. 30	By cash	8	54
	,		Dec. SI.	By cash	3	54
			1 1890.			
			Jan. 31.	By cash	153	54
	.		reb. 28	By cash By cash	3	54
			Mar. 31.	By cash	3	04
			Apr. 30.	By cash	3	54
			May 31.	By cash	3	04
			June 30.	By cash By Union Savings Bank	3	04
			June 30.	Dy Union Savings Bank	4	78
		\$4,207 45			\$4,207	45

#### DISBURSEMENTS-FOR THE YEAR ENDING JUNE 30, 1890.

APPENDIX No. 1-Salaries.	
College of Agriculture	<b>#10</b> 044
College of Agriculture	\$12,844
College of Civil Brownessing	12,021
College of Testang	11,532
College of Chemistry College of Civil Engineering College of Letters College of Mechanics College of Mechanics	27,277 12,787
College of Mechanics	12,787
College of Mining Department of Lick Observatory. Department of Physical Culture Library	9,036
Department of Lick Observatory	17,240
Department of Physical Culture	2,499
Library	3,300
Museum	1,500
Administration	22,736
University Printing Office	720
Agricultural Experiment Stations	4,719
	·
APPENDIX No. 2 A—Administration—Fuel.	\$138,217
1111 BADA 1100 B 11 11000000 W0000 1 W00.	
Seventy-eight tons Brymbo coal—T. H. Henderson	\$776
Fight tons Souttle cos T W Handerson	
Eight tons Seattle coal—T. H. Henderson Three tons 1,120 pounds Anthracite coal—T. H. Henderson.	67
Three tons 1,120 pounds Anthracite coal—1. H. Henderson	53
six tons 1,120 pounds wellington coal—I. H. Henderson	71
Six tons 1,120 pounds Wellington coal—T. H. Henderson Fifteen gunnie sacks—T. H. Henderson	1
Seventy grain sacks—T. H. Henderson	3
	·
	\$973
APPENDIX No. 2 B—Administration—Equipment and Repairs.	
Marks.	ĺ
Thirty copies "Xenophon's Historia Græcia"—J. R. McDonald & Co. 21.60	ĺ
Thirty copies "Aenophon's Historia Gracia"—J. R. McDonald & Co.  Thirty copies "Plato's Dialogi"—J. R. McDonald & Co.  Twelve copies "Plato's Dialogi"—J. R. McDonald & Co.  Twelve copies "Plato's Dialogi"—J. R. McDonald & Co.  Thirty copies "Aenophon's Appearance of the Company of the Compa	ı
Thirteen copies "Plato's Dialogi"—I R McDouald & Co	i
Twelve copies "Pleto's Dislogi" I P. McDoneld & Co.	1
Thirty copies (1908 phatograph Anthority), I.D. M. Donald & Co.	!
Thirty copies "Xenophon's Anabasis"—J. R. McDonald & Co 18.00	i
Thirty copies "Xenophon's Anabasis"—J. R. McDonald & Co. 18.00 Thirty copies "Homer's Iliad"—J. R. McDonald & Co. 18.00	
Twenty-nive copies "Aenophon's Commentari"—J. R. McDonaid	l
	]
Twelve copies "Homer's Odysse"—J. R. McDonald & Co.  Twelve copies "Homer's Odysse"—J. R. McDonald & Co.  Thirteen copies "Homer's Odysse"—J. R. McDonald & Co.  Thirteen copies "Homer's Odysse"—J. R. McDonald & Co.  Thirteen copies "Thucydides"—J. R. McDonald & Co.  Thirteen copies "Thucydides"—J. R. McDonald & Co.  Twelve copies "Thucydides"—J. R. McDonald & Co.  30.00	
Twelve copies "Herodotus"—J. R. McDonald & Co.	
Thirteen copies "Homer's Odysse"—I. R. McDonald & Co.	
Twelve conies "Homer's Odysse"—I R McDonald & Co. 15.00	Į.
Thirteen against (Thurwidday) I D McDonald & Co	ì
Three copies interviews — J. R. McDonald & Co	1
Twelve copies "Thucydides"—J. R. McDonald & Co.	ĺ
Thirteen copies "Demosthenes Orationes"—J. R. McDonald & Co  Twelve copies "Demosthenes Orationes"—J. R. McDonald & Co  Twenty copies "Eschylus"—J. R. McDonald & Co  Thirteen copies "Euripides"—J. R. McDonald & Co  Thirteen copies "Euripides"—J. R. McDonald & Co  Thirteen copies "Euripides"—J. R. McDonald & Co  30.00	
Twelve copies "Demosthenes Orationes"—J. R. McDonald & Co)	
Twenty copies "Æschylus"—J. R. McDonald & Co 24.00	1
Thirteen copies "Euripides"—J. R. McDonald & Co.	i
Twelve copies "Euripides"—J. R. McDonald & Co.	
Twelve copies "Euripides"—J. R. McDonald & Co. 30.00 Twenty copies "Sophocles"—J. R. McDonald & Co. 24.00	1
Twenty conies "Lygias"—L. R. McDonald & Co. 1920	
Ten copies "Æschines"—J. R. McDonald & Co	1
Ten copies "Æschines"—J. R. McDonald & Co. 7.20 Five copies "Aristophanes"—J. R. McDonald & Co. 12.00	1
From to Hamburga I D MaDonald & Co.	1
Freight to Hamburg—J. R. McDonald & Co. 4.20 Receiving, cartage, shipping—J. R. McDonald & Co. 3.50 Freight to San Francisco—J. R. McDonald & Co. 48.75	
Receiving, cartage, shipping—J. R. McDonald & Co.	ļ
Freight to San Francisco—J. R. McDonald & Co. 48.75	1
Consul's certificate—J. R. McDonald & Co	
Commission—J. R. McDonald & Co	1
Commission—J. R. McDonald & Co. 18.30 Case and packing—J. R. McDonald & Co. 4.50	
	-
Marks 384,35	\$92
Twelve pounds cotton sash cord—Dunham, Carrigan & Hayden Co. Half dozen mortise knob locks—Dunham, Carrigan & Hayden Co.	`4
Half dozen mortise knob locks—Dunbam, Carrigan & Hayden Co.	8
Half dozen L. P. butts-Dunham, Carrigan & Hayden Co.	1 2
One dozen transom catchers—Dunham, Carrigan & Hayden Co.	1 -
Ten pounds wire brads, 1x17—Dunham, Carrigan & Hayden Co.	1
Twenty pounds wise bride 9419 Duckey Charles h Harde Co	
Twenty pounds wire brads, 2x12—Dunham, Carrigan & Hayden Co.  Twenty pounds wire brads, 2½x10—Dunham, Carrigan & Hayden Co.	1 4
Twenty pounds wire brads, 21x10—Dunham, Carrigan & Hayden Co)	J
Five gross screws, 12x14—Dunham, Carrigan & Hayden Co)	1 .
Five gross screws, \$\frac{2}{x}4\to Dunham, Carrigan & Hayden Co	8
Two gross screws, *x9—Dunham, Carrigan & Hayden Co.	
Five hundred feet 1x12x16 surfaced redwood—Henry W. Taylor	] 16
One thousand feet 1x6x16 T, and G, redwood—Henry W. Taylor	32
Five gross screws, 12x14—Dunham, Carrigan & Hayden Co.  Five gross screws, 3x4—Dunham, Carrigan & Hayden Co.  Two gross screws, 4x9—Dunham, Carrigan & Hayden Co.  Two gross screws, 2x9—Dunham, Carrigan & Hayden Co.  Five hundred feet 1x12x16 surfaced redwood—Henry W. Taylor  One thousand feet 1x6x16 T. and G. redwood—Henry W. Taylor  One thousand and five feet 14x4x12 redwood—Henry W. Taylor	35
man and and sever against south over	, 00

Five hundred and thirteen feet 4x4x20 redwood—Henry W. Taylor.  Five hundred feet 1x4 rough redwood—Henry W. Taylor.  One thousand feet 1x6 rough redwood—Henry W. Taylor.  One thousand feet 1x6 rough redwood—Henry W. Taylor.  One thousand feet 1x4x16 T. and G. pine—Henry W. Taylor.  One hundred feet 1x4 rough pine—Henry W. Taylor.  One hundred feet 1x4 rough pine—Henry W. Taylor.  Mill work on redwood—Henry W. Taylor.  Mill work on redwood—Henry W. Taylor.  Labor for month of July  Five sets door jambs, 22 feet—Niehaus Bros. & Co.  Three sets door jambs, 22 feet—Niehaus Bros. & Co.  Three sets door jambs, 22 feet—Niehaus Bros. & Co.  Three sets door jambs, 22 feet—Niehaus Bros. & Co.  Three hundred and sixty-five feet \$x12 base—Niehaus Bros. & Co.  Eight transom bars—Niehaus Bros. & Co.  Five hundred and fitty-six feet band molding—Niehaus Bros. & Co.  Five hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Four doors—Niehaus Bros. & Co.  Five hundred and fitty-six feet band—Niehaus Bros. & Co.  Four hundred and fitty-six feet band—Niehaus Bros. & Co.  Five punds and fitty-six feet band—Niehaus Bros. & Co.  Two hundred and fitty-six feet band—Niehaus Bros. & Co.  Three fitty and the fitty of	<b>\$</b> 9 <b>2</b> 8
Five hundred feet 1x12 surfaced redwood—Henry W. Taylor	16 50
One thousand feet 1x4x16 T. and G. redwood—Henry W. Taylor	32 00
One thousand seet 1x0 rough redwood—Henry W. 1aylor	18 00 23 07
One thousand feet 11x4x16 T. and G. pine—Henry W. Taylor	34 00
One hundred feet 1x4 rough pine—Henry W. Taylor	1 80
Mill work on redwood—Henry W. Taylor	2 50
Labor for month of July	50 32 00
Five sets door jambs, 21 feet—Niehaus Bros. & Co.	02 00
Three sets door jambs, 22 feet—Niehaus Bros. & Co.	
Two hundred and sixty-nive feet $\pm x12$ base—Niehaus Bros. & Co	
Two hundred and fifty-six feet round casing—Niehaus Bros. & Co.	
Five hundred and twelve feet band molding—Niehaus Bros. & Co	
Two hundred and fifty-six feet Rd. band—Niehaus Bros. & Co	
Two hundred and fifty-six feet bead—Niehaus, Bros. & Co	111 25
Two hundred and fifty feet casing—Niehaus Bros. & Co.	111 20
Two hundred and fifty-six feet band back—Niebaus Bros. & Co.	
Four doors-Niehaus Bros. & Co.	
Two hundred and nity feet grounds—Niehaus Bros. & Co.	
Twenty-four feet threshold—Niehaus Bros. & Co.	
Twenty-five feet bead mold—Niehaus Bros. & Co	1
Three Tr. 2x3, 21 oz.—Niehaus Bros. & Co.	
Une thousand teet spruce—Niehaus Bros. & Co.	38 25
Five gallons carriage varnish—Henter Bros. & Co.	17 50
Five gallons turpentine—Heuter Bros. & Co.	2 75
One gallon gasoline—Heuter Bros. & Co.	35
Five pounds lump pumice—Heuter Bros. & Co.	50 1 75
Six sash toolsHeuter Bros. & Co.	1 00
Six fitches—Heuter Bros. & Co.	75 76
One flat duster—Heuter Bros. & Co.	76
One paint burner—Heuter Bros. & Co	5 25 1 35
Five hundred pounds Pioneer lead—Whittier, Fuller & Co.	30 00
One hundred pounds Golden ocher—Whittier, Fuller & Co.	8 00
Fifty gallons boiled oil—Whittier, Fuller & Co.	36 25
Five gallons turpentine—Whittier, Fuller & Co	2 60 2 25
One hundred pounds Prince's metallic—Whittier, Fuller & Co.	2 25
Five pounds pure raw sienna—Whittier, Fuller & Co	65
Two and one half dozen pair butts—Dunham, Carrigan & Hayden Co.	75
Two and one half dozen cupboard locks—Dunham, Carrigan & Hayden Co.	12 50 1 91
One half dozen knob locks—Dunham, Carrigan & Hayden Co.	6 90
One half dozen L. P. butts-Dunham, Carrigan & Hayden Co.	2 48 1 75
One half dozen dead locks—Dunham, Carrigan & Hayden Co.	1 75
Two dozen key blanks—Dunnam, Carrigan & Hayden Co.	2 00 25
Painting—James Andrew	108 50
Carpenter work—William Hodgson	98 00
Labor for month of August	54 80
Covering North Hall steps with zinc, as per contract—J. M. McNamara	99 35
Plumbing in North Hall, as per contract—J. M. McNamara	115 00 18 00
Ten gallons wax-F. M. Farwell	20 00
One tack hammer—Justinian Caire	25
Assorted nies—Justinian Caire	1 50 70
One dozen burners—Thomas Day & Co.	.\ 50
Labor and expenses—Thomas Day & Co.	6 75
Five sockets—J. M. McNamara	. 60
Services of painter—John Andrew	24 50 24 50
Services of carpenter—W. Hodgson	94 50
Services of painter—John Andrew	( 91 00
Labor for month of September	.} 49 00

# Eight automatic water-closets—Sanitary Plumbing Co. .....\$240 00 Connections—Sanitary Plumbing Co. 35 00 Repairs and new basin—Sanitary Plumbing Co. 7 00 Rebate on old closets \_\_\_\_\_\_\_12 00 One basin cock—J. M. McNamara. One 3-inch stop—J. M. McNamara One 1-inch stop—J. M. McNamara Twenty-two feet 13-inch pipe—J. M. McNamara Thirty-six feet 3-inch leader—J. M. McNamara Thirty-six feet 3-inch leader—J. M. McNamara Repairing closets—J. M. McNamara Three hundred and seventy-seven yards cocoa matting—McGovern & Cahill. Eighty-six yards B. B. carpet—McGovern & Cahill One yard oil cloth—McGovern & Cahill Five yards B. B. carpet—McGovern & Cahill One bards B. B. carpet—McGovern & Cahill One brush mat—McGovern & Cahill Four Smyrna rugs—McGovern & Cahill Three hundred pounds Pioneer lead—Whittier, Fuller & Co. Forty pounds putty—Whittier, Fuller & Co. Twenty gallons linseed oil—Whittier, Fuller & Co. Ten gallons blackboard slating—Whittier, Fuller & Co. Ten gallons blackboard slating—Whittier, Fuller & Co. Five gallons carriage varnish—Whittier, Fuller & Co. One thousand feet 3x4 redwood—Henry W. Taylor. Five hundred feet 2x8 redwood—Henry W. Taylor. One thousand feet 1x4x16 T. and G. pine—Henry W. Taylor One thousand feet 1x4x16 T. and G. pine—Henry W. Taylor One hundred and eighty feet 1x12x16 redwood—Henry W. Taylor One hundred feet 1x6 pine—Henry W. Taylor One hundred feet 1½12x20 stepping—Henry W. Taylor One hundred feet 1½12x20 stepping—Henry W. Taylor One thousand shingles—Henry W. Taylor Six bars castile soap—G. W. Armes One and one third dozen dust brushes—G. W. Armes 9 33 One and two thirds dozen floor brushes—G. W. Armes 25 00 One half dozen chamois skins—G. W. Armes 275 One brush mat—McGovern & Cahill Two dozen brooms—G. W. Armes \$7 00 One dozen dust pans—G. W. Armes 1 50 Two dozen car dusters—G. W. Armes 18 00 Less 20 per cent ... 5 30 One dozen coal hods—G. W. Armes \$7 50 One dozen fire shovels—G. W. Armes 1 85 One dozen'base knobs—Pierce & Co. Ten yards muslin—Raphael Weill & Co. Nine pounds detail paper—Edward Denny & Co. Six hundred cubic feet of gas—Oakland Gas Co. One hundred and seventy feet redwood—Niehaus Bros. & Co. One office chair—Jos. Fredericks & Co. Two hundred pounds asphaltum—R. A. Kershaw One thousand six hundred cubic feet of gas—Oakland Gas Co. One B. B. carnet—Schlueter & Volberg One B. B. carpet—Schlueter & Volberg Plumbing in North and South Halls—J. M. McNamara One dozen night latches—Dunham, Carrigan & Hayden Co. Four dozen key blanks—Dunham, Carrigan & Hayden Co. One dozen wardrobe locks—Dunham, Carrigan & Hayden Co. One dozen pair narrow butts—Dunham, Carrigan & Hayden Co. Six gross screws—Dunham, Carrigan & Hayden Co. One dozen pair brass hinges—Dunham, Carrigan & Hayden Co. One dozen pair iron butts—Dunham, Carrigan & Hayden Co.

	One gross brass screws—Dunham, Carrigan & Hayden Co. One Cairo rug—C. M. Plum & Co. Upholstery Co. One Damascus rug—C. M. Plum & Co. Upholstery Co. Services of painter—James Andrew. One Bradford stove—M. De La Montanya. Twenty joints stove-pipe—M. De La Montanya. One corrugated elbow—M. De La Montanya. One eventilating tube—M. De La Montanya. One ventilating tube—M. De La Montanya Iron fenders—M. De La Montanya. Service of carpenter—A. H. Broad. Labor, as per October payroll Three 4-foot tables—Geo. H. Fuller Three oak chairs—Geo. H. Fuller Four library chairs—Geo. H. Fuller Four hookcase—Geo. H. Fuller Two fiat-top desks—Geo. H. Fuller One Cairo rug—C. H. Plum & Co. Upholstery Co. One Bradford stove—M. De La Montanya. Labor and cartage—M. De La Montanya. Labor and cartage—M. De La Montanya. Labor and cartage—M. De La Montanya. Services of painter—James Andrew Eighteen feet ash lumber—White Brothers One door bell—Huntington-Hopkins Co. Three quarters barrel lime—J. W. Savage.	<b>\$</b> 0
	One gross orass screws—Dunnain, Carriagan & Tayden Co.	90 21
	One Carro rug—C. M. Fium & Co. Opholstery Co.	10
7	One Damascus rug—C. M. Plum & Co. Upholstery Co.	16
7	Services of painter—James Andrew	84
2	One Bradford stove—M. De La Montanya	16
	Twenty joints stove-pipe—M. De La Montanya	7
0 0	One corrugated elbow—M. De La Montanya	-
19	One hevel elhow M De La Montanya	
	One wentileting tube. M De La Montenue	1
ià	Chevening tupe—M. De La Montanya	+
4	Sheet zinc—M. De La Montanya	1
- '3	Iron lenders—M. De La Montanya.	3
3	Damper and collar—M. De La Montanya	
	Labor putting up—M. De La Montanya	3
4	Service of carpenter—A. H. Broad	7
8 2	Lahor, as ner October payroll	54
500	Three 4-foot tables Can H Fuller	22
1	Three role shows Co. II. Puller	18
6 8	Three tak chairs—Geo. H. Fuller	10
2 50	rour library chairs—Geo. H. Fuller	15
2 3	Four bookcases—Geo. H. Fuller	80
6 00	Two flat-top desks—Geo. H. Fuller	.36
8 0	One bookcase—Geo. H. Fuller	18
1 0	One Cairo rug—C. H. Plum & Co. Upholstery Co.	21
4 0	One Bradford stove—M. De La Montanya	21 16
o di	Sheet zing_M De La Montanya	. 1
ó di	I show and owtges M Do I a Montonya	1 2
- 4	Ampor and carrage—M. De La Montanya.	z
7 00	one mumble—J. w. Savage	_
48.	Six key blanks—D. Siesbuttel	1
00	Services of painter—James Andrew	5
3 00	Eighteen feet ash lumber—White Brothers	2
) (ME)	One door bell—Huntington-Hopkins Co.	$\overline{2}$
L XIII	Three quarters harrel lime—I W Savage	1
L 80 3 OU	Fight hundred on his fact are Ockland Cas Co	$ar{f 2}$
4 0	One the word on a heard and a charles of College of Control	3
L 00	one thousand one number cubic feet gas—Oakland Gas Co	9
. Will	services of painter—James Andrew	42
2 0	Labor for month of November	52
2 24	Services of painter—James Andrew	42
· •	One hundred and fifty chairs—long rod—California Furniture Mfg. Co	250
	Tables on arms of same	112
<b>.</b>	Eighteen feet ash lumber—White Brothers One door bell—Huntington-Hopkins Co. Three quarters barrel lime—J. W. Savage.  Eight hundred cubic feet gas—Oakland Gas Co. One thousand one hundred cubic feet gas—Oakland Gas Co. Services of painter—James Andrew Labor for month of November Services of painter—James Andrew. One hundred and fifty chairs—long rod—California Furniture Mfg. Co. Tables on arms of same. Three thousand seven hundred cubic teet gas—Oakland Gas Co. Five thousand cubic feet gas—Oakland Gas Co. Labor for month of December One top desk—Geo. H. Fuller One bookcase—Geo. H. Fuller One 4-foot table—Geo. H. Fuller	9
	Five thousand only fact ras Oakland Cas Co	10
1	I shor for month of Desember	51
	One ton death Co. H. Evilor	18
	One top ucon—uco, II, Fuller	10
L 54	one bookcase—Geo. H. Fuller	18
Ħ.	Une 4-root table—Geo. H. Fuller	7
	One chair—Geo. H. Fuller	9
٠,	Twenty sacks of sawdust-Berkeley Planing Mill	3
1	Twelve pounds of lead waste—Berkeley Lumber Yard	ĭ
1	Two pounds of fittings. Dalziel & Moller	-
F	One Linch clobe velve. Delviel & Moller	· 1
	One 4-mon group varve—Dalzier & Monier	
. 20	One 1-inch globe varve—Dalziel & Moller	•
1	one union valve—Dalziei & Molier	
	One ping	
	Length stove-pipe—S. D. Thurston	
:	Twenty-two feef S. G. hickory—Waterhouse & Lester	3
4	Repairing basin—I. M. McNamara	$\tilde{2}$
all l	One dozen cast-steel caliners—Justinian Caire	8
9	Labor for month of Tannary	52
	One hyndred feet challe system Nichons Duce & Co	9
. 1	One municulate rect chark guiter—Michaels Dros. & Co.	3 2 2
壥	Three sets casters—Fierce & Co.	ž
<b>O</b>	stove-pipe and elbow—Jeffress, Mitchell & Co.	_2
F 5 1 5 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	One mimeograph—Samuel Hill Co.	20
0	Eight and one third yards Brussels carpet—Schlueter & Volberg	12
	Six and two thirds yards Napier matting—Schlueter & Volberg	5
	One 4-foot table—Geo. H. Fuller One 4-foot table—Geo. H. Fuller Twenty sacks of sawdust—Berkeley Planing Mill Twelve pounds of lead waste—Berkeley Lumber Yard Two pounds of fittings—Dalziel & Moller One 4-inch globe valve—Dalziel & Moller One 1-inch globe valve—Dalziel & Moller One union valve—Dalziel & Moller One plug Length stove-pipe—S. D. Thurston Twenty-two feet S. G. hickory—Waterhouse & Lester Repairing basin—J. M. McNamara. One dozen cast-steel calipers—Justinian Caire Labor for month of January One hundred feet chalk gutter—Niehaus Bros. & Co. Three sets casters—Pierce & Co. Stove-pipe and elbow—Jeffress, Mitchell & Co. One mimeograph—Samuel Hill Co. Eight and one third yards Brussels carpet—Schlueter & Volberg Six and two thirds yards Napier matting—Schlueter & Volberg Two thousand nine hundred cubic feet gas—Oakland Gas Co. Labor for month of February Four bookcases, per agreement—Niehaus Bros. & Co.	7
: #	Four thousand cubic feet cas—Oakland Gas Co	10
	Labor for month of Tohurow	48
; <b>(</b>	Daniel No. hookened no. or contains the Nichard Barriel C.	40
) <b>(</b>	rour bookcases, per agreement—Nienaus Bros. & Co.	
	one plain bookcase, per agreement—Niehaus Bros. & Co	60
3.4	Thirty-six feet pine and cedar	6
	Twenty-one feet hand rail—Niehaus Bros. & Co	3
75	Labor for month of February Four bookcases, per agreement—Niehaus Bros. & Co. One plain bookcase, per agreement—Niehaus Bros. & Co. Thirty-six feet pine and cedar Twenty-one feet hand rail—Niehaus Bros. & Co. Two hundred feet cove—Niehaus Bros. & Co. One garland trap—J. M. McNamara Solder and coal—J. M. McNamara	ð
		•
1	One garland tran—I. M. McNamara	2

235 35

Help-J. M. McNamara
Two gate books and eyes—I. M. Savage
Two thresh latches I M Comes
1 wo thumb latches—J. M. Savage
Two draw pulls—J. M. Savage
Moving and replacing stove per contract—I M McNamara
O'
Sixty-two days labor on bell tower—R. McKillican
Lumber on hell tower—R. McKillican
Minister on Lall 4- D Mc IT 2012
Tinning on bell tower—R. McKillican
Mill work on hell tower—R. McKillican
Hardway on bell town D McVillian
Hardware on ben tower—R. McKinican
Hoisting bell on bell tower—R. McKillican
Dainting on hall tower D McVillian
Tainting on ben tower—K. McKinican
One thousand and twenty feet surfaced redwood—Henry W. Taylor
Cartage and mill work. Henry W. Taylor
Oarrage and min work—Henry W. Taylor
Four thousand feet redwood—Henry W. Taylor
One Bradford stove M. De La Montanya
The little late of the De la Broady
Ten joints stove-pipe—M. De La Montanya
One joint corrugated elbow—M. De La Montanya
One joint to integrate a city with the transfer and the city with the ci
One joint damper—M. De La Montanya
Labor and cartage—M. De La Montanya
One down Vale looks Trustinian Coine
One dozen i ale locks-justiman Oaite
Une dozen bolt plates—Justinian Caire
Four thousand one hundred cubic fast cas Oakland Cas Co
Four mousaint one numered cubic teet gas—Oakianu Gas Ou
Help—J. M. McNamara. Two gate hooks and eyes—J. M. Savage Two thumb latches—J. M. Savage Two draw pulls—J. M. Savage Moving and replacing stove, per contract—J. M. McNamara Sixty-two days labor on bell tower—R. McKillican Lumber on bell tower—R. McKillican Lumber on bell tower—R. McKillican Mill work on bell tower—R. McKillican Hardware on bell tower—R. McKillican Hoisting bell on bell tower—R. McKillican Hoisting bell on bell tower—R. McKillican One thousand and twenty feet surfaced redwood—Henry W. Taylor Cartage and mill work—Henry W. Taylor One Bradford stove—M. De La Montanya Ten joints stove-pipe—M. De La Montanya One joint corrugated elbow—M. De La Montanya One joint damper—M. De La Montanya One dozen Yale locks—Justinian Caire One dozen Yale locks—Justinian Caire Four thousand one hundred cubic feet gas—Oakland Gas Co. Three joints stove-pipe—J. M. McNamara Labor on same—J. M. McNamara One light pendant—J. M. McNamara One light pendant—J. M. McNamara Uabor on same—J. M. McNamara Uasor on same—J. M. McNamara
One joint elbow—I M McNamara
Tab and Tab Table
Labor on same—J. M. McNamara
One light nendant—I. M. McNamara
Taken on care I M MaNeres
Labor on same—J. M. McNamara
Wash tray and connections—J. M. McNamara
Two gots costons Dunham Camigan & Haydon Co
Two sets casters—Duffnam, Carrigan & Hayden Co.
Hinges and lock—Justinian Caire
Lag screws—Justinian Caire
Don Institute Color
Kope—Justinian Caire
Renairing door check—F. D. Morrell.
The true fact sub Withhall and for Trusten
Forty feet ash—waternouse & Lester
One package string tags—Dutton & Partridge
Cleaning and regulating cleaks A Cotton
Cleaning and regulating clocks—A. Settern
I wo nundred and seventy-six ughts, assorted sizes— winterer, runter & Co.
One called and seventy-six lights, assorted sizes—whitter, runer & Co.
One gallon alcohol—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turnenting. Whittier Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.
One gallons turpentine—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kers & nails—Dunham Carrigan & Hayden Co.
One galzier's diamond—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 3d nails—Dunham, Carrigan & Hayden Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 3d nails—Dunham, Carrigan & Hayden Co.  Two kegs 6d nails—Dunham, Carrigan & Hayden Co.
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One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 6d nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 3d nails—Dunham, Carrigan & Hayden Co.  Two kegs 6d nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds brass castings—F. Baud  Ninety-two rounds brass castings—F. Baud
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 3d nails—Dunham, Carrigan & Hayden Co. Two kegs 6d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-two pounds brass castings—F. Baud
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 3d nails—Dunham, Carrigan & Hayden Co. Two kegs 6d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud Ninety-two pounds brass castings—F. Baud One map of France—B. Westermann & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 6d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud One map of France—B. Westermann & Co. One map of France—B. Westermann & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud  Ninety-two pounds brass castings—F. Baud  One map of France—B. Westermann & Co.  One map of Spain—B. Westermann & Co.
One gallon alcohol—Whittier, Fuller & Co. Fifty pounds putty—Whittier, Fuller & Co. Fifty pounds putty—Whittier, Fuller & Co. Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 8d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud Ninety-two pounds brass castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs & nails—Dunham, Carrigan & Hayden Co. Two kegs & nails—Dunham, Carrigan & Hayden Co. Two kegs & nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud Ninety-two pounds brass castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co.  Fifty pounds E. W. glue—Whittier, Fuller & Co.
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One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs & dails—Dunham, Carrigan & Hayden Co. Two kegs & dails—Dunham, Carrigan & Hayden Co. Two kegs & dails—Dunham, Carrigan & Hayden Co. Two kegs & dails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co. Fifty pounds E. W. glue—Whittier, Fuller & Co. One hundred pounds dry yellow ochre—Whittier, Fuller & Co. Twenty-five pounds dry yellow ochre—Whittier, Fuller & Co.
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One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co. Fifty pounds E. W. glue—Whittier, Fuller & Co. One hundred pounds dry yellow ochre—Whittier, Fuller & Co. Twenty-five pounds venetian red—Whittier, Fuller & Co. Twenty-five pounds burnt umber—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 6d nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud  Ninety-two pounds brass castings—F. Baud  One map of France—B. Westermann & Co.  One map of Spain—B. Westermann & Co.  Five hundred pounds Paris whitte—Whittier, Fuller & Co.  Fifty pounds plaster Paris—Whittier, Fuller & Co.  One hundred pounds dry yellow ochre—Whittier, Fuller & Co.  Twenty-five pounds venetian red—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Ten pounds plat blue—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co.  Two kegs &d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co. Fifty pounds E. W. glue—Whittier, Fuller & Co. Fifty pounds plaster Paris—Whittier, Fuller & Co. Twenty-five pounds dry yellow ochre—Whittier, Fuller & Co. Twenty-five pounds burnt umber—Whittier, Fuller & Co. Tren pounds ultra blue—Whittier, Fuller & Co.
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One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co. Fifty pounds E. W. glue—Whittier, Fuller & Co. One hundred pounds dry yellow ochre—Whittier, Fuller & Co. Twenty-five pounds burnt umber—Whittier, Fuller & Co. Twenty-five pounds burnt umber—Whittier, Fuller & Co. Three pounds lamp black—Whittier, Fuller & Co. Three pounds lamp black—Whittier, Fuller & Co. Three pounds lamp black—Whittier, Fuller & Co. One 6-inch kalsomine brush—Whittier, Fuller & Co.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud  Ninety-two pounds brass castings—F. Baud  One map of France—B. Westermann & Co.  One map of Spain—B. Westermann & Co.  Five hundred pounds Paris whitte—Whittier, Fuller & Co.  Fifty pounds plaster Paris—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Three pounds lamp black—Whittier, Fuller & Co.  One 6-inch kalsomine brush—Whittier, Fuller & Co.  One 8-inch kalsomine brush—Whittier, Fuller & Co.  One 8-inch kalsomine brush—Whittier, Fuller & Co.
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One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Two kegs & nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud  Ninety-two pounds brass castings—F. Baud  One map of France—B. Westermann & Co.  One map of Spain—B. Westermann & Co.  Five hundred pounds Paris white—Whittier, Fuller & Co.  Fifty pounds E. W. glue—Whittier, Fuller & Co.  One hundred pounds dry yellow ochre—Whittier, Fuller & Co.  Twenty-five pounds venetian red—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Three pounds ultra blue—Whittier, Fuller & Co.  Three pounds lamp black—Whittier, Fuller & Co.  One &-inch kalsomine brush—Whittier, Fuller & Co.  One 8-inch kalsomine brush—Whittier, Fuller & Co.
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One gallon alcohol—Whittier, Fuller & Co. Fifty pounds putty—Whittier, Fuller & Co. Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 6d nails—Dunham, Carrigan & Hayden Co. Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud Ninety-two pounds brass castings—F. Baud One map of France—B. Westermann & Co. One map of Spain—B. Westermann & Co. Five hundred pounds Paris whitte—Whittier, Fuller & Co. Fifty pounds plaster Paris—Whittier, Fuller & Co. Fifty pounds plaster Paris—Whittier, Fuller & Co. Twenty-five pounds venetian red—Whittier, Fuller & Co. Twenty-five pounds burnt umber—Whittier, Fuller & Co. Three pounds lamp black—Whittier, Fuller & Co. One 6-inch kalsomine brush—Whittier, Fuller & Co. One 6-inch kalsomine brush—Whittier, Fuller & Co. One 8-inch kalsomine brush—Whittier, Fuller & Co. One walnut case for trophies—E. Hook Advertising bids for painting—Oakland "Enquirer" Advertising bids for painting—Oakland "Tribune" Advertising bids for painting—Oakland "Tribune" Advertising bids for painting—Oakland "Tribune" Advertising brush—E. Levenson One half dozen lag screws—Savage Bros. One tag—Pierce & Co. Six door holders—C. F. Short.
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co. Two kegs &d nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud Ninety-eight pounds bell metal castings—F. Baud One map of France—B. Westermann & Co. One map of France—B. Westermann & Co. Five hundred pounds Paris white—Whittier, Fuller & Co. Fifty pounds E. W. glue—Whittier, Fuller & Co. Fifty pounds plaster Paris—Whittier, Fuller & Co. One hundred pounds dry yellow ochre—Whittier, Fuller & Co. Twenty-five pounds venetian red—Whittier, Fuller & Co. Then pounds ultra blue—Whittier, Fuller & Co. The pounds ultra blue—Whittier, Fuller & Co. One &-inch kalsomine brush—Whittier, Fuller & Co. One walnut case for trophies—E. Hook Advertising bids for painting—Oakland "Enquirer" Advertising bids for painting—Oakland "Tribune" Advertising bids for painting—Oakland "Times" One dozen sash locks—J. M. Savage One third dozen flush pulls—H. Rosekrans & Co. Repairing brush—E. Levenson One half dozen lag screws—Savage Bros. One tape—Pierce & Co. Six door holders—C. F. Short— Proposals for painting—San Francisco "Chronicle"
One gallon alcohol—Whittier, Fuller & Co.  Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  One glazier's diamond—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 6d nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud  Ninety-two pounds brass castings—F. Baud  One map of France—B. Westermann & Co.  One map of Spain—B. Westermann & Co.  Five hundred pounds Paris whitte—Whittier, Fuller & Co.  Fifty pounds E. W. glue—Whittier, Fuller & Co.  Fifty pounds plaster Paris—Whittier, Fuller & Co.  Twenty-five pounds venetian red—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Three pounds lamp black—Whittier, Fuller & Co.  Three pounds lamp black—Whittier, Fuller & Co.  One 6-inch kalsomine brush—Whittier, Fuller & Co.  One 8-inch kalsomine brush—Whittier, Fuller & Co.  One 8-inch kalsomine brush—Whittier, Fuller & Co.  One walnut case for trophies—E. Hook  Advertising bids for painting—Oakland "Enquirer"  Advertising bids for painting—Oakland "Tribune"  One dozen sash locks—J. M. Savage  One third dozen flush pulls—H. Rosekrans & Co.  Repairing brush—E. Levenson  One half dozen lag screws—Savage Bros.  One tage—Prierce & Co.  Six door holders—C. F. Short—  Proposals for painting—San Francisco "Chronicle"
Two sets casters—Dunham, Carrigan & Hayden Co.  Hinges and lock—Justinian Caire  Rope—Justinian Caire  Repairing door check—F. D. Morrell.  Forty feet ash—Waterhouse & Lester  One package string tags—Dutton & Partridge.  Cleaning and regulating clocks—A. Settern  Two hundred and seventy-six lights, assorted sizes—Whittier, Fuller & Co.  One gallon alcohol—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co.  Four kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 8d nails—Dunham, Carrigan & Hayden Co.  Two kegs 6d nails—Dunham, Carrigan & Hayden Co.  Seventy-five pounds brass castings—F. Baud  Ninety-eight pounds bell metal castings—F. Baud  Ninety-two pounds brass castings—F. Baud  One map of France—B. Westermann & Co.  One map of Spain—B. Westermann & Co.  Five hundred pounds Paris white—Whittier, Fuller & Co.  Fifty pounds E. W. glue—Whittier, Fuller & Co.  Fifty pounds plaster Paris—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Then pounds amp black—Whittier, Fuller & Co.  The pounds alamp black—Whittier, Fuller & Co.  The pounds lamp black—Whittier, Fuller & Co.  The pounds lamp black—Whittier, Fuller & Co.  One &-inch kalsomine brush—Whittier, Fuller & Co.  One &-inch kalsomine brush—Whittier, Fuller & Co.  One Bainch kalsomine brush—Whittier, Fuller & Co.  One &-inch kalsomine brush—Whittier, Fuller &-Co.  One &-inch kalsomine brush—Whittier, Fulle

One bronze lock—Dunham, Carrigan & Hayden Co. One pair bronze butts—Dunham, Carrigan & Hayden Co. Four key blanks—Dunham, Carrigan & Hayden Co. Repairing closet—J. M. McNamara Repairing shower bath—J. M. McNamara Repairing shower bath—J. M. McNamara Time of plumber and helper—J. M. McNamara One pair bronzed buckets—Savage Bros. Five gallons Elastic paint—Whittier, Fuller & Co. Three lights—Whittier, Fuller & Co. Three hundred feet T. and G. cedar—Niehaus Bros. & Co. Two hundred and fifty-six feet molding—Niehaus Bros. & Co. One four-panel door—Niehaus Bros. & Co. Painting on buildings—G. C. Gottung Four globes—Jeffress, Mitchell & Co. Four hours labor—Jeffress, Mitchell & Co. Repairing telescope—J. Speak	\$3 50
One pair bronze butts-Dunham, Carrigan & Hayden Co.	2 00
Ronairing closet—I. M. McNamara	50 1 50
Repairing water pipe—J. M. McNamara	1 75
Repairing shower bath—J. M. McNamara	3 00
One pair bronged buckets Savage Rros	4 00 1 00
Five gallons Elastic paint—Whittier, Fuller & Co.	12 50
Three lights—Whittier, Fuller & Co.	11 10
Three hundred feet T. and G. cedar—Niehaus Bros. & Co.	49.00
One four-panel door—Niehaus Bros. & Co.	42 00
Painting on buildings—G. C. Gottung	600 00
Four globes—Jeffress, Mitchell & Co	2 00
Four ring holders—Jeffress, Mitchell & Co	1 00 2 00
Repairing telescope—J. Speak.  Repairing roof of library—J. M. McNamara.  Repairing two faucets in cottage—J. M. McNamara.  Repairing one closet in cottage—J. M. McNamara.  One light 43½x522—Whittier, Fuller & Co.	1 50
Repairing roof of library—J. M. McNamara	4 00
Repairing two faucets in cottage—J. M. McNamara	1 50
One light 431 x593—Whittier Fuller & Co	2 50 7 75
Two spools copper wire—Joseph McClain	. 40
Two thousand one hundred cubic feet gas—Oakland Gas Co	5 25
Three thousand four hundred cubic feet gas—Oakland Gas Co.	8 50 4 30
Renairing roof and sewer—I M McNamara	5 70
Two spools copper wire—Joseph McClain Two thousand one hundred cubic feet gas—Oakland Gas Co. Three thousand four hundred cubic feet gas—Oakland Gas Co. Putting up and repairing leader—J. M. McNamara Repairing roof and sewer—J. M. McNamara Repairing trap in gymnasium—J. M. McNamara	5 00
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APPENDIX No. 2 C—Administration—Advertising and Printing.	\$6,087 10
Printing 6,700 examination papers—C. A. Murdock & Co.  Printing 200 copies "Finance Committee's Report"—C. A. Murdock & Co.  Advertising entrance examinations—San Francisco "Bulletin".  Advertising entrance examinations—San Francisco "Call".  Advertising entrance examinations—San Francisco "Chronicle".  Advertising entrance examinations—San Francisco "Examiner".  Advertising entrance examinations—San Francisco "Alta California".  Advertising entrance examinations—San Francisco "Evening Post".  Advertising entrance examinations—Ios Angeles "Times".  Advertising entrance examinations—Los Angeles "Herald".  Advertising entrance examinations—Los Angeles "Evening Express".  Advertising entrance examinations—Oakland "Tribune".  Advertising entrance examinations—Oakland "Times".  Advertising entrance examinations—Oakland "Enquirer".  Advertising entrance examinations—Oakland "Enquirer".  Advertising entrance examinations—Oakland "Enquirer".  Advertising entrance examinations—Galand "Enquirer".  Advertising entrance examinations—Grass Valley "Tidings".  Advertising entrance examinations—Grass Valley "Union".  Advertising entrance examinations—Chico "Chronicle"  Printing Proposed license and agreement—C. A. Murdock & Co.  Printing release of mortgage—C. A. Murdock & Co.	
Printing 6,700 examination papers—C. A. Murdock & Co.	\$49 <b>3</b> 5
Printing 200 copies "Finance Committee's Report"—C. A. Murdock & Co	18 00
Advertising entrance examinations—San Francisco "Bulletin"	8 60 8 00
Advertising entrance examinations—San Francisco "Chronicle"	9 80
Advertising entrance examinations—San Francisco "Examiner"	9 80
Advertising entrance examinations—San Francisco "Alta California"	7 00
Advertising entrance examinations—San Francisco "Evening Post"	7 00 4 25
Advertising entrance examinations—Los Angeles "Herald"	5 00
Advertising entrance examinations—Los Angeles "Evening Express"	4 50
Advertising entrance examinations—Oakland "Tribune"	7 50
Advertising entrance examinations—Chico "Enterprise"	3 00 7 50
Advertising entrance examinations—Oakland "Enquirer"	3 00
Advertising entrance examinations—San Francisco "Report"	.7 00
Advertising entrance examinations—Grass Valley "Tidings"	4 00
Advertising entrance examinations—Grass Valley "Union"	4 00 2 50
Printing 200 salary rolls—C. A. Murdock & Co.	12 00
Printing release of mortgage—C. A. Murdock & Co.	4 00
Printing proposed license and agreement—C. A. Murdock & Co.	4 50
Printing in 000 University interest receipts—Wm. C. Brown	8 00 8 00
Advertising money to loan—San Francisco "Chronicle"	3 80
Advertising money to loan—San Francisco "Examiner"	2 10
Advertising money to loan—San Francisco "Bulletin"	2 65
Advertising money to loan—San Francisco "Call"	1 75 1 50
Advertising money to loan—San Francisco "Report"	1 50
Calling meeting of Board—San Francisco "Chronicle"	90
Calling meeting of Board—San Francisco "Alta"	2 00
Printing 1000 applications—C. A. Murdock & Co.	2 00 22 00
Printing 6.000 tickets and envelopes—C. A. Murdock & Co.	39 00
Printing 200 announcements of courses—C. A. Murdock & Co.	9 50
Printing release of mortgage—C. A. Murdock & Co. Printing proposed license and agreement—C. A. Murdock & Co. Printing philosophy examination papers—C. A. Murdock & Co. Printing 1,000 University interest receipts—Wm. C. Brown Advertising money to loan—San Francisco "Chronicle" Advertising money to loan—San Francisco "Examiner" Advertising money to loan—San Francisco "Bullefin" Advertising money to loan—San Francisco "Call" Advertising money to loan—San Francisco "Post" Advertising money to loan—San Francisco "Report" Calling meeting of Board—San Francisco "Chronicle" Calling meeting of Board—San Francisco "Alta" Printing 100 cards for Regents—C. A. Murdock & Co. Printing 1,000 applications—C. A. Murdock & Co. Printing 200 announcements of courses—C. A. Murdock & Co. Advertising entrance examinations—"Morning Times"	7 00
	\$301 80
	4502.00

APPENDIX No. 2 D—Administration—Telegraphing and Expressage.	
Expressage—Wells, Fargo & Co.	\$210 12
Expressage—Patterson & Co.	92.30
Freight—Southern Pacific Co. Telegraphing—Western Union Telegraph Co. Exchange, etc., on warrants, bonds, etc. Money orders, commission	19 4
Telegraphing—Western Union Telegraph Co	36 54 190 6
Mouse orders commission	129 01 4 95
ittoroy orders, commission	
	\$492 33
APPENDIX No. 2 E—Administration—Stationery.	
Counting for County office	\$125 60
Supplies for Secretary's officeSupplies for Recorder's office	97 85
Supplies for President's office	29 80
Supplies for President's office Supplies for Land office Supplies for English department	2 50
Supplies for English department	1 80
APPENDIX No. 2 F-Administration-Postage.	\$257 55
AFFENDIA NO. 2 I—Auntonium atom—I ostage.	
Postage for Secretary's office	\$112 00
Postage for Recorder's office	370 00
A	<b>\$482 0</b> 0
APPENDIX No. 2 G—Administration—Land Administration.	
Rebate on interest to John G. Busch	\$25 56
Rebate on interest to John G. Busch Traveling expenses of E. A. Norton, from May 25, 1889, to August 9, 1889. Services during that time—E. A. Norton Clerical services, July and August—Walter C. Allen Fees on money order—N. B. Byrne Two boxes seals—H. S. Crocker & Co.	252 35
Services during that time—E. A. Norton	76 63
Clerical services, July and August—Walter C. Allen	20 00
Fees on money order—N. B. Byrne	15
Two boxes seals—H. S. Crocker & Co.	80 22 40
Returned money order—John Mullin Postage stamps—N. B. Byrne Examination of records—J. R. Young	50 00
Examination of records—J. R. Young	4 20
Expressage—Wells, Fargo & Co.	3 00
Expressage—Wells, Fargo & Co. Expressage—Wells, Fargo & Co. Searching records—John B. Mhoon Cartified copy of list. J. U. Polk	30
Searching records—John B. Mhoon	5 00 1 35
Certified copy of list—J. H. Polk. One blank book—Cunningham, Curtiss & Welch	3 50
A N OTT AT LIA A T A A A T	\$469 78
APPENDIX No. 2 H—Administration—Incidental Expenses.	
Premium on bond of Secretary—Pacific Surety Co.	\$50 00
One bag and marking—Mann & Benedict	10 00
Copying agreement with Western Union Telegraph Co.—Runge & Elliott	1 15
One bag and marking—Mann & Benedict.  Copying agreement with Western Union Telegraph Co.—Runge & Elliott  Copying Chapin contract—G. Mahoney  Notary's fees acknowledging two releases—A. B. Merrill	1 50
Notary's fees acknowledging two releases—A. B. Merrill	. 200
Notary's fees acknowledging one release—A. B. Merrill	1 00
Notary's fees acknowledging one release—A. B. Merrill	1 00
Notary's fees acknowledging one release—A. B. Merrill Notary's fees acknowledging one release—A. B. Merrill Notary's fees acknowledging one release—A. B. Merrill Copying agreements—Julia Harris. Copying agreements—Runge & Elliott	4 10
Copying agreements—Runge & Elliott	60
APPENDIX No. 2 I—Administration—College Celebrations.	\$72 35
AFFENDIA NO. 2 1—Administration—Conege Celebrations.	
Six thousand cards, commencement exercises—C. A. Murdock & Co	\$21 00°
Six thousand anyelones, commencement exercises—C. A. Murdock & Co.	`?9.0∄
Filling out thirty-nine diplomas—T. R. Southern	19 50
Filling out thirty-nine diplomas—T. R. Southern  Advertising and mailing invitations—W. W. Deamer  Two pieces of ribbon—Kohlberg, Strauss & Froman	10 50
Meals to musicionsI G. Wright	2 70 9 50
Meals to musicians—J. G. Wright Forty-three diplomas—Schmidt Label Lithographing Co.	64 50
One thousand programmes for class day—Louis Dreka	50 00
One thousand programmes for class day—Louis Dreka Four hundred dance programmes, class day—Louis Dreka	34 00
	\$234 7

APPENDIX No. 2 J-Administration-Official and Lecturing Expenses.	
Traveling expenses of Secretary Traveling expenses of Mr. Letts Traveling expenses of Professor Howard Traveling expenses of Professor Slate Traveling expenses of Professor Stringham Traveling expenses of Professor Jones Traveling expenses of Professor Gayley Traveling expenses of Professor Clarke Traveling expenses of Professor Bradley Traveling expenses of Professor Edwards Traveling expenses of Professor Edwards Traveling expenses of Professor Edwards	<b>\$</b> 58 80
Traveling expenses of Mr Letts	63 30
Traveling expenses of Professor Howard	150 80
Traveling expenses of Professor Slate	174 55
Traveling expenses of Professor Stringham	111 50
Traveling expenses of Professor Jones	148-70
Traveling expenses of Professor Gayley	26 05
Traveling expenses of Professor Clarke	24 30
Traveling expenses of Professor Bradley	92 25
Traveling expenses of Professor Edwards	19 60
Traveling expenses of Dr. Senger Traveling expenses of Mr. Iddins Traveling expenses of Mr. O'Neill Traveling expenses of Mr. Phipps	72 20
Traveling expenses of Mr. Iddins.	2 35
Traveling expenses of Mr. O'Neill	24 50
Traveling expenses of Mr. Phipps	2 35
Traveling expenses of Janitor	20
Extra clerical service.	10 55
APPENDIX No. 2 K—Administration—Cottage Repairs.	\$982 00
Lining sink—J. M. McNamara One faucet and repairs—J. M. McNamara	<b>\$3</b> 50
One faucet and repairs—J. M. McNamara	1 50
Two harrels coal tar—Oakland Gas Co	10 00
One bath and connections—J. M. McNamara Repairing showers—J. M. McNamara Lining sink—J. M. McNamara One chimney top—J. M. McNamara	13 50
Repairing showers—J. M. McNamara	1 50
Lining sink—J. M. McNamara	3 50
One chimney top—J. M. McNamara	7 0
Une pell—Plerce & Co.	1 2
Twenty-eight rolls gold paper—mcGovern & Cahill	4 20
Ten rous color paper—mcGovern & Canil	70
One and one third yards corder paper—McGovern & Canill	6' 2 4
One chimney top—J. M. McNamara One bell—Pierce & Co. Twenty-eight rolls gold paper—McGovern & Cahill Ten rolls color paper—McGovern & Cahill Five and one third yards border paper—McGovern & Cahill One pane glass—Whittier, Fuller & Co. Three faucets—J. M. McNamara Lining sink—J. M. McNamara Lining sink—J. M. McNamara One boiler stand, and couplings—J. M. McNamara Thirty-five feet pipe and fittings—J. M. McNamara Repairing water pipe—J. M. McNamara One chimney top—J. M. McNamara One boiler stand, and couplings—J. M. McNamara Forty feet water pipe—J. M. McNamara Forty feet water pipe—J. M. McNamara Forty feet water pipe—J. M. McNamara Plumber and helper—J. M. McNamara Plumber and helper—J. M. McNamara Pourteen rolls gold paper—McGovern & Cahill One roll border paper—McGovern & Cahill One dozen pull plates—Pierce & Co.	3 0
Iniper sink I M Monare	3 50
One boiler stand and couplings. I M McNemare	12 5
Thirty-five foot nine and fitting I M MaNamana	3 00
Reneiring wester nine I M MeNemere	100
One chimney ton-I M McNemere	7 0
Reneiring stove_I M McNamara	1 5
One hoiler stand and couplings I M. McNamara	12 50
Forty feet water nine—I. M. McNamara	3 5
Plumber and helper—I. M. McNamara	9 0
Fourteen rolls gold paper—McGovern & Cabill	ž š
One roll border paner—McGovern & Cabill	īŏ
One dozen pull plates—Pierce & Co.	1 00
Two sash pulls—Pierce & Co.	. 91
One dozen pull plates—Pierce & Co. Two sash pulls—Pierce & Co. One boiler and stand—J. M. McNamara Connecting, fitting, and labor—J. M. McNamara Repairing boiler pipe—J. M. McNamara Two pounds of solder—J. M. McNamara One boiler coupling—J. M. McNamara Time of plumber—J. M. McNamara Repairing of roof—J. M. McNamara Solder and coal—J. M. McNamara	12 50
Connecting, fitting, and labor-J. M. McNamara	7 5
Repairing boiler pipe—J. M. McNamara	` 60
Two pounds of solder—J. M. McNamara	50
One boiler coupling—J. M. McNamara	. 40
Time of plumber—J. M. McNamara	150
Repairing of roof-J. M. McNamara	2 00
Solder and coal—J. M. McNamara	1 50
Time of plumber—J. M. McNamara	5 50
Repairing sink-J. M. McNamara	4 50
Time of plumber—J. M. McNamara Repairing sink—J. M. McNamara Night work—A. Edgar Night work—R. Forbes Night work—J. Tait	7.50
Night work—R. Forbes.	7 50
Night work—J. Tait	7 50
Might Work—John Davis	5 00
Night work—R. Johnson	2 50
-	
APPENDIX No. 2 L—Administration—Insurance.	\$178 07
Premium on \$432,330—J. C. Mitchell & Son	\$4,323 30

APPENDIX No. 2 M—Administration—Water Supply.	
Labor for month of July	\$2 - - 2 - 5 - 19
Labor for month of August	_ 2
Labor for month of September Water for June—Alameda Water Company Water for September—Alameda Water Company	2
Water for June—Alameda Water Company	- 5
Water for September—Alameda Water Company	-! 10
Labor for month of October Water for October—Alameda Water Company	28
water for October—Maineda water Company	- 40
Labor for month of November Survey in Strawberry Creek—W. G. Raymond Two tracings—W. G. Raymond Labor for month of December	2 2 4
Iwo tracings—W. G. Raymond	$\tilde{1}$
Labor for month of December	. 2
State and county taxes	28
Town of Berkeley taxes	_ 24
Labor for month of December. State and county taxes. Fown of Berkeley taxes Fees on affidavits—A. B. Merrill Services of engineer in examining site for reservoir—J. J. Cloud Labor for month of January Water for December and January—Alameda Water Company Labor for month of February	- 2
Services of engineer in examining site for reservoir—J. J. Cloud	_ 100
Water for December and January	- 67
Water for December and January—Alameda Water Company	2
Water for February Alameda Water Company	18
One 2-inch cap—Alameda Water Company	-
Labor for month of March	20
Water for March—Alameda Water Company	. 28 3
Labor for month of April	. 20
Water for December and January—Alameda Water Company Labor for Month of February Water for February—Alameda Water Company One 2-inch cap—Alameda Water Company Labor for month of March Water for March—Alameda Water Company Labor for month of April Labor for month of May	2 0
•	
APPENDIX No. 3 A-Agricultural Experiment Stations-Supplies.	\$346 6
APPENDIA 110. 5 A—Agracultural Experiment Situtions—Supplies.	
Six thousand three hundred and twenty pounds beardless barley hay-	
Thomas Huev	\$28 44
Thomas Huey	11 37 13 72
One thousand two hundred and twenty pounds hay—Geo. Rinehart & Bros.	13 72
One box caps—E. Ginocchio & Bro.  Three window blinds—E. Ginocchio & Bro.	yn:
Three window blinds—E. Ginocchio & Bro.	15 00
Tacks—E. Ginocchio & Bro.  Hinges and catches—E. Ginocchio & Bro.	25 1 00
Oileleth F Ginocohie & Bro	1 50
Twenty-five nounds Hercules nowder_R Ginocobio & Bro	4 50.
One box caps—E. Ginocchio & Bro.	85
Two hundred feet fuse—E. Ginocchio & Bro.	1 25 2 00 1 00
Sixty pounds spikes—E. Ginocchio & Bro	2 00
One gallon machine oil—E. Ginocchio & Bro.	1 00
One hundred and ninety-six feet sugar pine—L. Newman & Co.	6 86 1 96
Thirty-six feet sugar pine—L. Newman & Co.	1 44
One dozen chairs cak. I Nowman & Co.	20 75
Five door-knobs—I. Newman & Co.	50
Fifteen pounds 8d nails—L. Newman & Co.	75 50
One key-hole saw-J. Goldman & Co.	50
One punch—J. Goldman & Co.	26
Six and one half pounds solder—J. Goldman & Co	
	1 96
One pound resin—J. Goldman & Co.	10.
One pound resin—J. Goldman & Co. One can kerosene—Geo, F. Bell.	10. 1 75
One pound resin—J. Goldman & Co. One can kerosene—Geo, F. Bell One bottle sweet oil—Geo, F. Bell Drugs from A. R. Booth—Geo, F. Bell	10. 1 75. 10.
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell. One bottle sweet oil—Geo. F. Bell. Drugs, from A. R. Booth—Geo. F. Bell. Eight horseshee—W. C. Henderson	10. 175 10 75
One pound resm—J. Goldman & Co. One can kerosene—Geo, F. Bell One bottle sweet oil—Geo, F. Bell Drugs, from A. R. Booth—Geo, F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman	10. 1 75. 10. 75. 3 50.
One pound resin—J. Goldman & Co. One can kerosene—Geo. F. Bell One bottle sweet oil—Geo. F. Bell Drugs, from A. R. Booth—Geo. F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman Straps and repairs—E. G. Freeman	10. 1 75. 10. 75. 3 50.
Hinges and catches—E. Ginocchio & Bro. Oilcloth—E. Ginocchio & Bro. Twenty-five pounds Hercules powder—E. Ginocchio & Bro. One box caps—E. Ginocchio & Bro. Two hundred feet fuse—E. Ginocchio & Bro. Sixty pounds spikes—E. Ginocchio & Bro. One gallon machine oil—E. Ginocchio & Bro. One hundred and ninety-six feet sugar pine—L. Newman & Co. Thirty-six feet sugar pine—L. Newman & Co. Sixty-four feet sugar pine—L. Newman & Co. One dozen chairs, oak—L. Newman & Co. Five door-knobs—L. Newman & Co. Fifteen pounds 8d nails—L. Newman & Co. One key-hole saw—J. Goldman & Co. One punch—J. Goldman & Co. One punch—J. Goldman & Co. One pund resin—J. Goldman & Co. One pound resin—J. Goldman & Co. One can kerosene—Geo. F. Bell One bottle sweet oil—Geo. F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman Straps and repairs—E. G. Freeman Five 15-gallon oak wine kegs—J. H. Holden	10. 1 75 10. 75 3 50 1 00 1 00
One pound resin—J. Goldman & Co. One can kerosene—Geo. F. Bell One bottle sweet oil.—Geo. F. Bell Drugs, from A. R. Booth—Geo. F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman Straps and repairs—E. G. Freeman Five 15-gallon oak wine kegs—J. H. Holden Five 124-gallon oak wine kegs—J. H. Holden	10. 1 75 10. 75 3 50 1 00 1 00
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell. One bottle sweet oil-—Geo. F. Bell. Drugs, from A. R. Booth—Geo. F. Bell. Eight horseshoes—W. C. Henderson. One neck halter—E. G. Freeman. Straps and repairs—E. G. Freeman. Five 15-gallon oak wine kegs—J. H. Holden. Twenty 10-gallon oak wine kegs—J. H. Holden. Twenty 10-gallon oak wine kegs—J. H. Holden.	10. 1 75 10. 75 3 50 1 00 1 00
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell. One bottle sweet oil.—Geo. F. Bell. Drugs, from A. R. Booth—Geo. F. Bell. Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman. Straps and repairs—E. G. Freeman. Five 15-gallon oak wine kegs—J. H. Holden Twenty 10-gallon oak wine kegs—J. H. Holden. Twenty 9-gallon oak wine kegs—J. H. Holden. Twenty 9-gallon oak wine kegs—J. H. Holden.	10: 1 75 10: 3 50: 1 00: 1 00: 10 00: 10 00: 35 00: 35 00:
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell One bottle sweet oil.—Geo. F. Bell Drugs, from A. R. Booth—Geo. F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman Straps and repairs—E. G. Freeman Five 15-gallon oak wine kegs—J. H. Holden Five 12½-gallon oak wine kegs—J. H. Holden Twenty 10-gallon oak wine kegs—J. H. Holden Twenty 9-gallon oak wine kegs—J. H. Holden Ten 8-gallon oak wine kegs—J. H. Holden	10. 1 75 10. 3 50. 1 00. 10 00. 35 00. 35 00. 35 00.
One pound resin—J. Goldman & Co. One can kerosene—Geo. F. Bell One bottle sweet oil.—Geo. F. Bell Drugs, from A. R. Booth—Geo. F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman Straps and repairs—E. G. Freeman Five 15-gallon oak wine kegs—J. H. Holden Five 12½-gallon oak wine kegs—J. H. Holden Twenty 10-gallon oak wine kegs—J. H. Holden Twenty 9-gallon oak wine kegs—J. H. Holden Ten 8-gallon oak wine kegs—J. H. Holden One thousand five hundred 3-inch pots—Cal. Pottery and Terra Cotta Co. One thousand 4-inch pots—California Pottery and Terra Cotta Co.	10. 1 75 1 75 25 3 56 1 00. 10 00. 10 00. 35 00. 15 00. 22 00.
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell. One bottle sweet oil-—Geo. F. Bell. Drugs, from A. R. Booth—Geo. F. Bell. Eight horseshoes—W. C. Henderson. One neck halter—E. G. Freeman. Straps and repairs—E. G. Freeman. Straps and repairs—E. G. Freeman. Five 15-gallon oak wine kegs—J. H. Holden. Twenty 10-gallon oak wine kegs—J. H. Holden. Twenty 9-gallon oak wine kegs—J. H. Holden. Twenty 9-gallon oak wine kegs—J. H. Holden. Ten 8-gallon oak wine kegs—J. H. Holden. One thousand five hundred 3-inch pots—Cal. Pottery and Terra Cotta Co. One thousand 4-inch pots—California Pottery and Terra Cotta Co. Two hundred 6-inch pots—California Pottery and Terra Cotta Co.	10. 1 75 1 75 25 3 56 1 00. 10 00. 10 00. 35 00. 15 00. 22 00.
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell. One bottle sweet oil-—Geo. F. Bell. Drugs, from A. R. Booth—Geo. F. Bell. Eight horseshoes—W. C. Henderson. One neck halter—E. G. Freeman. Straps and repairs—E. G. Freeman. Five 15-gallon oak wine kegs—J. H. Holden. Five 12-gallon oak wine kegs—J. H. Holden. Twenty 10-gallon oak wine kegs—J. H. Holden. Twenty 9-gallon oak wine kegs—J. H. Holden. Ten 8-gallon oak wine kegs—J. H. Holden. One thousand five hundred 3-inch pots—Cal. Pottery and Terra Cotta Co. One thousand 4-inch pots—California Pottery and Terra Cotta Co. Five thousand pot labels—James Hutchinson.	10.5 1 15 15 15 15 15 15 15 15 15 15 15 15
Twenty 10-gallon oak wine kegs—J. H. Holden Twenty 10-gallon oak wine kegs—J. H. Holden Twenty 9-gallon oak wine kegs—J. H. Holden Ten 8-gallon oak wine kegs—J. H. Holden Ten 8-gallon oak wine kegs—J. H. Holden One thousand five hundred 3-inch pots—Cal. Pottery and Terra Cotta Co. One thousand 4-inch pots—California Pottery and Terra Cotta Co. Two hundred 6-inch pots—California Pottery and Terra Cotta Co. Five thousand pot labels—James Hutchinson Six thousand tree labels—James Hutchinson	10 17 17 17 17 17 17 17 17 17 17 17 17 17
One pound resm—J. Goldman & Co. One can kerosene—Geo. F. Bell One bottle sweet oil.—Geo. F. Bell Drugs, from A. R. Booth—Geo. F. Bell Eight horseshoes—W. C. Henderson One neck halter—E. G. Freeman Straps and repairs—E. G. Freeman Five 15-gallon oak wine kegs—J. H. Holden Twenty 10-gallon oak wine kegs—J. H. Holden Twenty 10-gallon oak wine kegs—J. H. Holden Twenty 9-gallon oak wine kegs—J. H. Holden Ten 8-gallon oak wine kegs—J. H. Holden One thousand five hundred 3-inch pots—California Pottery and Terra Cotta Co. Two hundred 6-inch pots—California Pottery and Terra Cotta Co. Five thousand pot labels—James Hutchinson Six thousand tree labels—James Hutchinson One thousand and eighty-eight pounds ground barley—J. Goldman & Co.	10.5 1 15 15 15 15 15 15 15 15 15 15 15 15

APPENDIX No. 3 B—Agricultural Experiment Stations—Chemical Apparatu Supplies.	s and	•
One copper tank and fixtures—John J. Menger	\$20 00	n.
One white sink, 16x24—John J. Menger. Eight and eight ninths ounces nitrate of silver—Karl Howard.	22 00	
Eight and eight ninths ounces nitrate of silver—Karl Howard	8 00	
Two boxes soap—Justinian Caire	3 24 5 00	
Sal soda—Justinian Caire	15 00	
Sal soda—Justinian Caire Four evaporating dishes—Justinian Caire	2 70	
One cup—Justinian Caire		
One brush—Justinian Caire	25	
One package rivets—Justinian Caire. One platinum dish, 60 grms.—Justinian Caire One platinum dish, 30 grms.—Justinian Caire One platinum dish, 18 grms.—Justinian Caire	70	C
One platinum dish, 60 grms.—Justinian Caire	25 80	
One platinum dish, 30 grms.—Justinian Caire	12 90 7 75	
whie corks—Justinian Care	O UL	í
Four 50-c.c. burettes—Justinian Caire		
Two thermometers—Justinian Caire One thermometer—Justinian Caire	5 00	
Six Bunsen burners—Justinian Caire	7 50	
Fifteen feet pure tin pipe—Justinian Caire	2 40	
Two dozen glass tunnels—Justiman Caire	2 40 2 25	
One dozen 4-inch watch glasses—Justinian Caire	2 50	
One set graduated pipettes—Justinian Caire	4 00	
Ritty pounds paramne—Justinian Caire Six Bunsen burners—Justinian Caire Fifteen feet pure tin pipe—Justinian Caire Two dozen glass funnels—Justinian Caire Two dozen 24-inch watch glasses—Justinian Caire One dozen 4-inch watch glasses—Justinian Caire One set graduated pipettes—Justinian Caire Twenty-five feet rubber tube—Justinian Caire Two dozen Kiedahl flasks—Justinian Caire	7 50	
One draw plate Instinian Caire	- 200	
Filter paper, 590—Justinian Caire	\ 7 00°	
Filter paper, common—Justinian Caire	3 00	
Three combustion boats (porcelain)—Justinian Caire	1 00	
Two 4-liter flasks—Justinian Caire	5 00 2 25	
Filter paper, 590—Justinian Caire Filter paper, common—Justinian Caire Three combustion boats (porcelain)—Justinian Caire Three combustion boats (platinum)—Justinian Caire Two 4-liter flasks—Justinian Caire Two 5-liter flasks—Justinian Caire	2 50	
TWO 0-HIEF HASKSHISHDIAN CAIFE	) X (II)	
Two dozen soil tubes—Justinian Caire	800	
Glass tubes, assorted—Justinian Caire	5 75	
Glass tubes, assorted—Justinian Caire One dozen charcoal sticks—Justinian Caire	50	
Ten teet platiniim wire.—Justinian Caire	5 00	
One pneumatic trough—Justinian Caire	2 75 1 50	
One glass aspirator—Justinian Caire One dozen beakers—Justinian Caire	3 00	
Two dozen 8-ounce reagents—Justinian Caire	9 00	
Two dozen 16-ounce reagents—Justinian Caire	5 00	
Wine corks— Instinian Coire	5 00 5 00	
One dozen extract flasks—Justinian Caire	2 00	
Two thermometers—Justinian Caire	2 00 1 70	
One half dozen round bottom flasks—Justinian Caire	3 60	
Two hundred pounds sal sods	3.00	
One piece asbestos cloth—Justinian Caire	1 25	
One pound baric nitrate—Justinian Caire One match safe—Justinian Caire	50 95	
One pair shears—Justinian Caire	25 1 00	
One foot rubber hose—Justinian Caire	13	
Hoop iron—Justinian Caire	2 00	
One brass garden syringe—Justinian Caire One glass cutter, diamond—Justinian Caire	5 00 4 00	
One hav class 9x14 Instinian Caire	2 25	
One box glass, 10x16—Justinian Caire Twenty-five pounds white lead—Justinian Caire	2 50	
Twenty-five pounds white lead—Justinian Caire Three thermometers—Justinian Caire	1 50	
One draw knife—Justinian Caire	1 00 1 00	
One draw knife—Justinian Caire	2 00	
Two packages wire nails—Justinian Caire	35	
Two scythes—Justinian Caire Eight wire sieves—Justinian Caire	3 00 7 60	
	7 00	
	<b>\$317</b> 88	
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APPENDIX No. 3 C-Agricultural Experiment Stations-Furniture.	. 0
One R. W. bookcase and trays—A. H. Weber One revolving bookcase—C. F. Weber & Co. One hundred and eighty-seven yards cocoa matting—E. Hook Three window shades—E. Hook Three tables—E. Hook One walnut desk—California Furniture Manufacturing Co. One walnut cylinder desk—West Coast Furniture Manufacturing Co. Two walnut office chairs—West Coast Furniture Manufacturing Co. One extension table—West Coast Furniture Manufacturing Co. Eight Douglas office chairs—West Coast Furniture Manufacturing Co. One redwood case, 9x3½x11½—Niehaus Bros. & Co. One redwood case, 11x11x6—Niehaus Bros. & Co.	\$30 0 25 0
One revolving bookcase—C. F. Weber & Co.	25 0 121 5
Three window shades—E. Hook	3 0
Three tables—E. Hook	18 0
One walnut desk—California Furniture Manufacturing Co.	35 0 32 0
Two walnut office chairs—West Coast Furniture Manufacturing Co.	12 0
One extension table—West Coast Furniture Manufacturing Co.	60
One redwood case 9x31x111Niehaus Bros. & Co	16 0
One redwood case, 11x11x6—Niehaus Bros. & Co.	240 0
	\$538 5
APPENDIX No. 3 D-Agricultural Experiment Stations-Freight and Expressage.	φυσου
	en 6
Expressage—George Hansen	\$0 6
APPENDIX No. 3 E—Agricultural Experiment Stations—Labor.	
Payroll for June, 1888—Paso Robles Station————————————————————————————————————	\$43 2
Payroll for June, 1888—Amador Station	231 1 100 0
rayron for June, 1886—I mare Station	
	\$374 4
Appendix No. 3 F—Agricultural Experiment Stations—Water Supply.	
One shoe—Cox & Williams. Stirrups and angle irons—Cox & Williams. Drills sharpened—Cox & Williams. Tallow for pump—George Hansen. Water used in irrigating four acres—Kaweah Canal and Irrigating Co Seven hundred and six feet lumber—Blue Lake Water Co One thousand one hundred and nineteen feet lumber—Blue Lake Water Co	<b>\$</b> 0.5
Stirrups and angle irons—Cox & Williams	8 7
Tallow for pump—George Hansen	7
Water used in irrigating four acres—Kaweah Canal and Irrigating Co	20 0
Seven hundred and six feet lumber—Blue Lake Water Co	14 1 16 (
One thousand one hundred and different feet fumber—Dide Dake water Co	10 (
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·	\$60 8
APPENDIX No. 3 G—Agricultural Experiment Stations—Incidental Expenses.	
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APPENDIX No. 3 G—Agricultural Experiment Stations—Incidental Expenses.  Clerical service making report—J. D. Layman  Clerical service mailing bulletin—J. D. Layman	\$11 (
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APPENDIX No. 3 G—Agricultural Experiment Stations—Incidental Expenses.  Clerical service making report—J. D. Layman  Clerical service mailing bulletin—J. D. Layman  APPENDIX No. 3 H—Agricultural Experiment Stations—Postage and Stationery.	\$11 ( 4 5
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APPENDIX No. 3 G—Agricultural Experiment Stations—Incidental Expenses.  Clerical service making report—J. D. Layman  Clerical service mailing bulletin—J. D. Layman  APPENDIX No. 3 H—Agricultural Experiment Stations—Postage and Stationery.	\$11 6 \$15 5 \$15 5 20 6 7 1
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APPENDIX No. 3 G—Agricultural Experiment Stations—Incidental Expenses.  Clerical service making report—J. D. Layman Clerical service mailing bulletin—J. D. Layman  APPENDIX No. 3 H—Agricultural Experiment Stations—Postage and Stationery.  Postage—George Hansen One mimeograph, No. 1—Samuel Hill Co. One copy press—Payot, Upham & Co. One copy brush—Payot, Upham & Co. One copy bowl hanging—Payot, Upham & Co. One Globe file, twenty drawers—Payot, Upham & Co. Two Monarch copy books—Payot, Upham & Co. Two Monarch copy books—Payot, Upham & Co. One 300-page day book—J. J. Evans Four sheets tracing paper—J. J. Evans Two and one half dozen penholders—J. J. Evans Three boxes tags—J. J. Evans Three boxes tags—J. J. Evans Three hundred McGill's fasteners—J. J. Evans Three hundred McGill's fasteners—J. J. Evans Two hundred McGill's fasteners—J. J. Evans One dozen smooth note pads—J. J. Evans	\$11 (4 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 5 \$1.5 \$1.
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	Three rulers—J. J. Evans Blotting—J. J. Evans One dozen bottles mucilage—J. J. Evans	\$0 45 3 20 2 50
	<u> </u>	4400.40
	APPENDIX No. 3 I—Agricultural Experiment Stations—Fencing and Drainage.	\$128 48
	Nine hundred and four feet clear pine—Henry W. Taylor	\$28 02
	Thirty-eight feet redwood—Henry W. Taylor	1 33
	One thousand five hundred feet 3-inch drain tile—Gladding, McBean & Co.	45 00
	One thousand feet 2-inch drain tile—Gladding, McBean & Co.	30 00
	One thousand feet 2-inch drain tile—Gladding, McBean & Co	25 00
	į į	\$129 35
·	APPENDIX No. 3 J—Agricultural Experiment Stations—Scientific Instruments.	V-20 00
	One 1-inch objective—Henry Kahn & Co \$15 00	
	One t-inch objectives—Henry Kahn & Co. 18 00 Two t-inch objectives—Henry Kahn & Co. 12 00 Two t-inch objectives—Henry Kahn & Co. 12 00	
	Two I-inch objectives—Henry Kahn & Co. 12 00	
	One 1½-inch objective—Henry Kahn & Co	
	One 14-inch objective—Henry Kahn & Co.         6 00           One magnifier—Henry Kahn & Co.         2 00           Three magnifiers—Henry Kahn & Co.         3 00           Three magnifiers—Henry Kahn & Co.         3 00	
	Three magnifiers—Henry Kahn & Co	
	One magnifier—Henry Kahn & Co.	
	One magnifier—Henry Kahn & Co. 1 30 Three fourths dozen medias—Henry Kahn & Co. 1 88 One and one half dozen medias—Henry Kahn & Co. 37	
	One and one half dozen medias—Henry Kahn & Co	
	Four forceps—Henry Kahn & Co	
	One forcep—neary Kann & Co	
	\$62 15	•
	Less 10 per cent 6 21	
		\$55 94
	APPENDIX No. 3 K—Agricultural Experiment Stations—Tools, Implements, and Machinery.	
	Two singletrees—Fregulio & Froelich Two brake blocks—Fregulio & Froelich	\$4 00
	Two brake blocks—Fregulio & Froelich	2 00
	Beam for plow—Fregulio & Froelich One Michigan scale—G. G. Wickson & Co. Two double beam Union scales—Baker & Hamilton	5 00
	One Michigan Scale—G. G. Wickson & Co.	24 00
	Two double beam Union scales—Baker & Hamilton	39 50
	Two steel yards—Baker & Hamilton One Eureka wagon and shafts—Truman, Hooker & Co.	45 00
	One set No. 11 harness—Truman, Hooker & Co.	11 00
	Twenty-five feet extra belt—Woodin & Little	5 50
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		<b>\$136</b> 00
	APPENDIX No. 3 L—Agricultural Experiment Stations—Printing.	\$136 OO
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$136 00 \$4 50
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25
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	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$145 00 46 73 108 00 40 00 155 60 93 25 93 25 93 20 128 45 42 00 46 73 49 00
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73 49 00 43 27
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73 49 00 43 27 59 00
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73 49 00 43 27 59 00 9 50
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	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73 49 00 43 7 59 00 9 50 50 00 25 30
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73 49 00 43 27 59 00 9 50 50 00 25 30 86 80
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 42 00 46 73 49 00 9 50 50 00 25 30 86 80 52 00
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 45 42 00 46 73 49 00 9 50 50 00 9 50 50 00 11 50
	Seven hundred and fifty bulletins, No. 82—Dewey & Co	\$4 50 \$145 00 46 73 108 00 40 00 155 60 93 25 93 00 128 42 00 46 73 49 00 9 50 50 00 25 30 86 80 52 00

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'avroll for December—A mador Station	103 38
ayroll for December—Tulare Station Payroll for December—Paso Robles Station	91 00 45 00
abor for month of January	34 00
Payroll for October Pass Pobles Station	46 7
abor for month of January Payroll for October—Paso Robles Station Payroll for November—Paso Robles Station	45 0
Payroll for November—Paso Robles Station Payroll for January—Tulare Station Payroll for January—Amador Station Payroll for January—Paso Robles Station Payroll for February—Tulare Station Payroll for February—Paso Robles Station Payroll for February—Paso Robles Station Payroll for February—Amador Station Payroll for March—Tulare Station Payroll for March—Tulare Station Payroll for March—Amador Station Payroll for March—Amador Station Payroll for March—Amador Station Payroll for March—Tulare Station Payroll for March—Tulare Station Payroll for March—Tulare Station	94 0
Payroll for January—Amador Station	85 พ
Payroll for January—Paso Robles Station	40 80 33 00
Labor for month of February	33 0
Payroll for February—Tulare Station	66 Ô
Payroll for February—Paso Robles Station	41 5
Payroll for February—Amador Station	82 8
Labor, clearing ground at Amador Station	95 0
Payrolf for March—Tulare Station	148 0 192 0
abov for march—Amador Station	192 U
Payroll for March Dago Poblog Station	78 2 59 0
Payroll for March—Faso Robles Station Payroll for April—Tulare Station Labor (plowing)—Paso Robles Station Payroll for April—Paso Robles Station	74 0
Payroll for April—Tulare Station	146 0
Labor (plowing)—Paso Robles Station	9 0 95 0
Payroll for April—Paso Robles Station	95 0
Labor (repairing tools)—Amador Station	3 7
Payroll for April—Amador Station	279 (
Payroll for May	16 0
Payroll for May—Paso Robles Station	93 4
Labor (repairing tools)—Amador Station Payroll for April—Amador Station Payroll for May Payroll for May—Paso Robles Station Payroll for May—Tulare Station Payroll for May—Amador Station Payroll for May—Amador Station	111 0
Payroll for May—Amador Station	157 3
	\$3,833-5
APPENDIX No. 3 N—Agricultural Experiment Stations—Buildings.	<b>Ф</b> Б,ООГ (
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Hacks Howith Deer	\$0 1
DOOKS—DEWILL Bros	
Two punches—Hewitt Bros.	ар I 5
Hooks—Hewitt Bros. Two punches—Hewitt Bros. Two scrapers—Hewitt Bros.	ар 1 5 5
Two punches—Hewitt Bros. Two scrapers—Hewitt Bros. Tin flashing—Hewitt Bros.	ъо 1 5 2 5
Tin flashing—Hewitt Bros.	5 2 5
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Two scrapers—Hewitt Bros.  Tin flashing—Hewitt Bros. Putty—Hewitt Bros. Putty—Hewitt Bros. Prin flashing—Hewitt Bros. Pointing plow—A. Young. Trimming horses feet—A. Young Sharpening pick—W. C. Henderson Repairing stove—W. C. Henderson Repairing buggy—W. C. Henderson Sharpening pick—W. C. Henderson Repairing buggy—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Tour horseshoes	1 1 26 24 12 24 3 24 12 27 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Two scrapers—Hewitt Bros.  Tin flashing—Hewitt Bros. Putty—Hewitt Bros. Putty—Hewitt Bros. Prin flashing—Hewitt Bros. Pointing plow—A. Young. Trimming horses feet—A. Young Sharpening pick—W. C. Henderson Repairing stove—W. C. Henderson Repairing buggy—W. C. Henderson Sharpening pick—W. C. Henderson Repairing buggy—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Tour horseshoes	1 1 1 26 24 12 24 3 22 4 3 3 2 5 5 6 2 7 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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Two scrapers—Hewitt Bros.  Tin flashing—Hewitt Bros. Putty—Hewitt Bros. Putty—Hewitt Bros. Prin flashing—Hewitt Bros. Pointing plow—A. Young. Trimming horses feet—A. Young Sharpening pick—W. C. Henderson Repairing stove—W. C. Henderson Repairing buggy—W. C. Henderson Sharpening pick—W. C. Henderson Repairing buggy—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Tour horseshoes	1 1 1 26 24 12 24 3 22 4 3 3 2 5 5 6 2 7 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Two scrapers—Hewitt Bros.  Tin flashing—Hewitt Bros. Putty—Hewitt Bros. Putty—Hewitt Bros. Prin flashing—Hewitt Bros. Pointing plow—A. Young. Trimming horses feet—A. Young Sharpening pick—W. C. Henderson Repairing stove—W. C. Henderson Repairing buggy—W. C. Henderson Sharpening pick—W. C. Henderson Repairing buggy—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Tour horseshoes	1 1 1 26 24 12 24 3 22 4 3 3 2 5 5 6 2 7 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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Two scrapers—Hewitt Bros.  Tin flashing—Hewitt Bros. Putty—Hewitt Bros. Putty—Hewitt Bros. Pin flashing—Hewitt Bros. Pointing plow—A. Young. Trimming horses feet—A. Young Sharpening pick—W. C. Henderson Repairing stove—W. C. Henderson Repairing buggy—W. C. Henderson Sharpening pick—W. C. Henderson Repairing buggy—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Repairing singletree—W. C. Henderson Tour horseshoes—W. C. Henderson Tour horseshoes—	1 1 1 26 24 12 24 3 22 4 3 3 2 5 5 6 2 7 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Three hundred and twenty-four feet lumber—F. M. Whitmore Four hundred shakes—F. M. Whitmore Two hundred and ten feet lumber—F. M. Whitmore Three hundred and sixty-seven pounds lime—Frank Masoni Ten pounds nails—E. Ginocchio & Bro. Hinges and fixtures—E. Ginocchio & Bro.	<b>\$8 29</b>
Four hundred shakes—F. M. Whitmore	3 60
Three hundred and sixty-seven nounds lime—Frank Magoni	8 40 5 50
Ten pounds nails—E. Ginocchio & Bro.	60
Hinges and fixtures—E. Ginocchio & Bro.	67
Hinges and fixtures—E. Ginocchio & Bro. One box caps—E. Ginocchio & Bro. Twenty-five pounds powder—E. Ginocchio & Bro. One hundred and twenty-five feet rustic lumber—F. M. Whitmore Two hundred feet T. and G. lumber—F. M. Whitmore. One hundred feet Scotia lumber—F. M. Whitmore. Fifty feet casing—F. M. Whitmore. Eight hundred feet common rough lumber—L. Newman & Co. Five pounds 20d nails—J. M. Levy. Five pounds 20d nails—J. M. Levy. Five pounds 8 and 10d nails—J. M. Levy Labor on buildings—Paso Robles Station Painting stable, shed, tool house, etc.—J. E. Bishop— One thousand four hundred and eighty-eight feet lumber—F. M. Whitmore. Three thousand shingles—F. M. Whitmore Labor on buildings—Frank Hahn Seventy-five pounds nails—J. M. Levy	85
Twenty-five pounds powder—E. Ginocchio & Bro.	5 00
One nundred and twenty-nve feet rustic lumber—F. M. Whitmore	5 00
One hundred feet Scotia lumber—F. M. Whitmore	8 00 1 00
Fifty feet casing—F. M. Whitmore	2 00
Eight hundred feet common rough lumber—L. Newman & Co.	18 00
Five pounds 20d nails—J. M. Levy	25
Finishing nails—J. M. Levy	1 00
Five pounds 8 and 10d nails—J. M. Levy	75
Labor on buildings—Paso Robles Station  Painting stable shed tool house sta T F Bishen	24 85 45 00
One thousand four hundred and eighty-eight feet lumber—F M Whitmore	43 02
Three thousand shingles—F. M. Whitmore	10 00
Labor on buildings—Frank Hahn	36 00
Seventy-five pounds nails—J. M. Levy	3 75
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APPENDIX No. 3 O-Agricultural Experiment Stations-Chemical Apparatus and	
Supplies.	
Two reams filter paper, common—Justinian Caire	\$9 00
One ream filter paper, extra—Justinian Caire	20 00
Washed filter paper, assorted—Justinian Caire.	20 15
One ream filter paper, extra—Justinian Caire Washed filter paper, assorted—Justinian Caire Forty-four pounds paraffine—Justinian Caire One dozen stoppered bottles—Justinian Caire	6 60
One dozen stoppered bottles—Justinian Caire	4 00.
Three 3-c.c. pipettes—Justiman Caire	75
Six spring cling - Justinian Caire	80 1 50
Six burette clamps—Justinian Caire	4 80
Two dozen evaporating dishes—Justinian Caire	6 00
Twenty pounds caustic potash—Justinian Caire	2 00
Four pounds carbonate soda—Justinian Caire	2 16
Four pounds bicarbonate soda—Justinian Caire	5 00
Four pounds sodium sulphate—Justinian Caire	2 70
Eight feet mibber tube Instinion Coire	50 2 75
One pair scissors—Justinian Caire	2 75 75
Tacks and locks—Justinian Caire	65
Two saucepans—Justinian Caire	1 20
One dozen stoppered bottles—Justinian Caire Three 3-c.c. pipettes—Justinian Caire Two 10-c.c. cylinders—Justinian Caire Six spring clips—Justinian Caire Six burette clamps—Justinian Caire Two dozen evaporating dishes—Justinian Caire Twenty pounds caustic potash—Justinian Caire Tour pounds carbonate soda—Justinian Caire Four pounds bicarbonate soda—Justinian Caire Four pounds sodium sulphate—Justinian Caire Four pounds sodium sulphate—Justinian Caire Eight feet rubber tube—Justinian Caire Tight feet rubber tube—Justinian Caire Tacks and locks—Justinian Caire Two sancepans—Justinian Caire Two sancepans—Justinian Caire Two tin sieves—Justinian Caire Two sencepans—Justinian Caire Two wire screens for stemmer—Justinian Caire Six coffee sacks—Justinian Caire One backs—Justinian Caire	80
One gallon measure—Justinian Caire	. 1 75
Six coffee sacks—Justinian Caire	3 25
One bung borer—Justinian Caire One bung borer—Justinian Caire Six sink scrubbers—Justinian Caire One large shovel—Justinian Caire Two coal scuttles—Justinian Caire Two small hatches—Justinian Caire	1 50 2 00
Six sink scrubbers—Justinian Caire	50
One large shovel—Justinian Caire	4 00
Two coal scuttles—Justinian Caire	1 50
Two small hatches—Justinian Caire	1 50
Two man brooms—Justinian Caire	1 50 1 00
One scrub brush—Justinian Caire	75
One scrub brush—Justinian Caire Pearline—Justinian Caire	75 25
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire	75 25 3 00
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire	75 25 3 00 1 00
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire. Three sponges—Justinian Caire. Three sponges—Justinian Caire.	75 25 3 00 1 00 1 00
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire	75 25 3 00 1 00 1 00 3 10
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire	75 25 3 00 1 00 1 00 3 10 40
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire	75 25 3 00 1 00 1 00 3 10 40 12 87 58 50
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire Four gross 2-ounce bottles—Justinian Caire	75 25 3 00 1 00 1 00 3 10 40 12 87 58 50 11 00
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire Four gross 2-ounce bottles—Justinian Caire Two gross 1-dram vials—Justinian Caire	75 25 3 00 1 00 1 00 3 10 40 12 87 58 60 11 00 1 87
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire. Three and one half pounds pure ether—Justinian Caire. One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire Four gross 2-ounce bottles—Justinian Caire Two gross 1-dram vials—Justinian Caire Four gross, each 3-dram, 4-dram, 4-dram vials—Justinian Caire	75 25 3 00 1 00 1 00 3 10 40 12 87 58 50 11 00 1 87 10 12
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire Four gross 2-ounce bottles—Justinian Caire Two gross 1-dram vials—Justinian Caire Four gross, each ½-dram, ½-dram, ½-dram vials—Justinian Caire One hundred and thirteen pounds aqua ammonia—S. F. Gas Light Co.	75 25 3 00 1 00 1 00 3 10 40 12 87 58 50 11 00 1 87 10 12 9 05
One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire Four gross 2-ounce bottles—Justinian Caire Two gross 1-dram vials—Justinian Caire Two gross - ach 2-dram, 1-dram, 1-dram vials—Justinian Caire One hundred and thirteen pounds aqua ammonia—S. F. Gas Light Co. Copper bath—Emil Gruner Four drying tubes—Emil Gruner	75 25 3 00 1 00 1 00 3 10 40 12 87 58 50 11 00 1 87 10 12 9 05 3 00 5 00
Two coal scuttles—Justinian Caire Two small hatches—Justinian Caire Two common brooms—Justinian Caire Two mop brooms—Justinian Caire Two mop brooms—Justinian Caire One scrub brush—Justinian Caire Pearline—Justinian Caire Six feather dusters—Justinian Caire Gum labels—Justinian Caire Twelve sponges—Justinian Caire Three and one half pounds pure ether—Justinian Caire One rasp—Justinian Caire Ninety-nine feet rubber hose—Justinian Caire Six gross soil bottles—Justinian Caire Four gross 2-ounce bottles—Justinian Caire Two gross 1-dram vials—Justinian Caire Four gross, each \(\frac{1}{2}\)-dram, \(\frac{1}{2}\)-dram, \(\frac{1}{2}\)-dram vials—Justinian Caire One hundred and thirteen pounds aqua ammonia—S. F. Gas Light Co. Copper bath—Emil Gruner Four drying tubes—Emil Gruner Two extractors—Emil Gruner	75 25 3 00 1 00 1 00 3 10 40 12 87 58 50 11 00 1 87 10 12 9 05 3 00 5 00 2 00

Two platinum disks—Emil Gruner	\$1.80.
Boxing—Emil Gruner	20
Boxing—Emil Gruner Two glass retorts—Justinian Caire	2 15
I'W Bries Popular Justinian Caire	2 10
Six hundred corks—Justinian Caire. One thousand tags—Justinian Caire.	4 2
One thousand tags—Justinian Caire	1 50
Twine—Justinian Caire Three cask brushes—Justinian Caire	2 50
Three cask brushes—Justinian Caire	3.00
Three brooms—Justinian Caire	15
One box candles—Justinian Caire.	2 00
One pair tongs—Justinian Caire	1 00
Graphite—Justinian Caire Seven pounds sulphuric ether—Justinian Caire	1 00
Seven pounds sulphuric ether—Justinian Caire	5 60
Six mouse traps—Justinian Caire	75
Fifty bungs—Justinian Caire	1 35
Wilson popular Tradinian Cale	4 00
Filter paper—Justinian Caire	4 00
Matches-Justinian Caire	1 75 3 75
watch glasses—Justinian Caire	3 75
One pair scissorsJustinian Caire	75
One 5-c.c. pipette—Justinian Caire	40
One 10.0 a pinette lugtinian Coire	70
One 10-c.c. pipette—Justinian Caire	
One 25-c.c. pipette—Justinian Caire	1 00
Two casseroles—Justinian Caire	2 00
Six straw rings—Justinian Caire	1 00
Fifty grains carbozol—Justinian Caire	$\frac{\overline{2}}{2}$ 50
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APPENDIX No. 3 P—Agricultural Experiment Stations—Furniture.	
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Five shades—E. Hook	<b>\$</b> 5 00
One hat rack—E. Hook	1 50
One office chair—E. Hook	7 00
One pine table—E. Hook	6 00
Stove for office—Hewitt Bros.	12 25
Stove board—Hewitt Bros.	1 50
Five joints pipe—Hewitt Bros	2 00
Pine collar_Howitt Bros	15
One domain a Hamilt Dag	25
One damper—Hewitt Bros. Fitting desk with pipe connections—John J. Menges	0.00
Fitting desk with pipe connections—John J. Menges	6 00
Two 0-100t tables—E. Hook.	12 00
Two 0-100t tables—E. Hook.	12 00
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.	3 00 2 75
Three shades—E. Hook.  One office rug—J. M. Levy.  One office drawer—J. M. Levy.  Furnishing and putting in speaking tubes—J. J. Menges.  One Ruby gas stove—Oakland Gas Co.  One thousand feet surfaced redwood—Henry W. Taylor.  Cartage and mill work—Henry W. Taylor.	12 00 2 76 1 25 3 96 7 25 33 00 2 50
Two 6-root tables. H. Hook.  Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges.  One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co.	12 00 2 76 1 25 3 96 7 25 33 00 2 50 21 00
Three shades—E. Hook.  One office rug—J. M. Levy.  One office drawer—J. M. Levy.  Furnishing and putting in speaking tubes—J. J. Menges.  One Ruby gas stove—Oakland Gas Co.  One thousand feet surfaced redwood—Henry W. Taylor.  Cartage and mill work—Henry W. Taylor.	12 00 2 76 1 25 3 96 7 25 33 00 2 50
Two 6-root tables. H. Hook.  Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges.  One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co.	3 00 2 75 1 25 3 96 7 25 38 00 2 50 21 00 43 50
Two 6-root tables—E. Hook.  Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook	12 00 2 76 1 25 3 96 7 25 33 00 2 50 21 00
Two 6-foot tables—E. Hook.  Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.	3 00 2 75 1 25 3 96 7 25 38 00 2 50 21 00 43 50
Three shades—E. Hook.  Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges One Ruby gas stove—Oakland Gas Co  One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  Appendix No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage.	3 00 2 75 1 25 3 96 7 25 38 00 2 50 21 00 43 50
Three shades—E. Hook.  Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges One Ruby gas stove—Oakland Gas Co  One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  Appendix No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage.	3 00 2 76 1 25 3 96 7 25 33 00 2 50 21 00 43 60
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell.	3 00 2 75 1 25 3 96 7 25 33 00 2 2 50 21 00 43 50 \$171 86
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell.	\$12 00 2 75 1 25 3 96 7 25 33 00 2 2 50 21 00 43 50 \$171 86 \$67 80 7 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One Ruby gas stove—Oakland Gas Co. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co.	\$12 00 2 76 1 25 3 86 7 25 33 00 21 00 43 50 \$171 86 \$67 80 7 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One Ruby gas stove—Oakland Gas Co. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co.	\$12 00 2 76 1 25 3 86 7 25 33 00 21 00 43 50 \$171 86 \$67 80 7 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One Ruby gas stove—Oakland Gas Co. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co.	\$2 00 2 75 1 25 3 96 7 25 33 00 2 50 21 00 43 50 \$171 86 \$67 80 7 00 1 00 1 00 8 98
Three shades—E. Hook One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Labor, cutting shakes—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co.	\$12 00 2 75 1 25 3 96 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 \$67 80 7 00 1 00 1 00 8 98
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. One flow of the state of the s	\$2 00 2 75 1 25 3 36 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 7 00 1 06 1 06 1 06 9 00
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy.  One office drawer—J. M. Levy.  One office drawer—J. M. Levy.  One office drawer—J. M. Levy.  One Ruby gas stove—Oakland Gas Co.  One thousand feet surfaced redwood—Henry W. Taylor.  Cartage and mill work—Henry W. Taylor.  One dozen S. P. R. chairs—California Manufacturing Co.  Fifty-eight square yards cocoa matting—E. Hook  Appendix No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage.  One thousand and twenty-three pounds galvanized wire—George F. Bell.  Five hundred shakes—S. P. Milling Co.  Twenty-one feet surfaced—S. P. Milling Co.  Labor, cutting shakes—S. P. Milling Co.  Two hundred and twenty-two feet surfaced—S. P. Milling Co.  Two hundred and forty feet rustic—S. P. Milling Co.	\$2 00 2 75 1 25 3 36 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 7 00 1 06 1 06 1 06 9 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co.	\$2 00 2 75 1 25 3 96 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 \$67 80 7 00 1 00 8 98 9 00 4 75 1 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co.	\$2 00 2 75 1 25 3 96 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 \$67 80 7 00 1 00 8 98 9 00 4 75 1 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co.	\$2 00 2 75 1 25 3 96 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 \$67 80 7 00 1 00 8 98 9 00 4 75 1 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co.	\$2 00 2 75 1 25 3 96 7 25 33 00 2 50 21 00 43 50 \$171 86 \$171 86 \$67 80 7 00 1 00 8 98 9 00 4 75 1 00
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Turnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  Appendix No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One lock and butts—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. One hundred and fifty feet refuse—Salinas Valley Lumber Co.	\$2 00 2 75 1 38 7 25 33 98 21 90 21 00 43 50 \$171 86 \$57 80 1 08 8 90 4 75 1 09 62 80 3 40°
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Labor, cutting shakes—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Fifty-four rods picket fence—J. C. Manock One hundred and fifty feet refuse—Salinas Valley Lumber Co.	\$2 00 2 75 1 38 7 25 33 98 21 90 21 00 43 50 \$171 86 \$57 80 1 08 8 90 4 75 1 09 62 80 3 40°
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One lock and butts—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. One lock and butts—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. One hundred and fifty feet refuse—Salinas Valley Lumber Co.	\$2 80 \$2 75 \$3 96 \$7 25 \$3 00 \$2 10 \$4 3 50 \$171 86 \$67 80 \$171 86 \$67 80 \$1 00 \$8 99 00 \$4 100 \$4 20 \$3 20 \$3 20 \$3 20 \$4 3 50 \$4 50 \$6
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Labor, cutting shakes—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Fifty-four rods picket fence—J. C. Manock One hundred and fifty feet refuse—Salinas Valley Lumber Co.	\$2 00 \$2 75 \$3 36 \$7 25 \$3 30 \$2 50 \$21 00 \$4 3 50 \$171 86 \$57 80 \$1 00 \$8 98 \$9 00 \$4 20 \$2 20 \$3 30 \$4 3 50 \$4 3 50 \$5 7 00 \$1 00 \$8 98 \$9 00 \$1 00 \$2 20 \$3 30 \$4 30 \$5 7 00 \$5 7 00 \$6 1 00 \$6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Labor, cutting shakes—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Fifty-four rods picket fence—J. C. Manock One hundred and fifty feet refuse—Salinas Valley Lumber Co.	\$2 00 2 75 1 38 7 25 33 98 21 90 21 00 43 50 \$171 86 \$57 80 1 08 8 90 4 75 1 09 62 80 3 40°
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co.	\$2 00 \$2 75 \$3 36 \$7 25 \$3 30 \$2 50 \$21 00 \$4 3 50 \$171 86 \$57 80 \$1 00 \$8 98 \$9 00 \$4 20 \$2 20 \$3 30 \$4 3 50 \$4 3 50 \$5 7 00 \$1 00 \$8 98 \$9 00 \$1 00 \$2 20 \$3 30 \$4 30 \$5 7 00 \$5 7 00 \$6 1 00 \$6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Three shades—E. Hook.  One office rug—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Labor, cutting shakes—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Fifty-four rods picket fence—J. C. Manock One hundred and fifty feet refuse—Salinas Valley Lumber Co.	\$2 00 \$2 75 \$3 36 \$7 25 \$3 00 \$2 50 \$2 50 \$2 50 \$2 50 \$2 50 \$2 50 \$3 00 \$3 00 \$171 86 \$57 80 \$1 00 \$8 98 \$9 00 \$4 20 \$2 50 \$4 3 50 \$57 80 \$1 00 \$4 20 \$2 50 \$4 20 \$3 4 20 \$4 20 \$3 4 20 \$4 20 \$5 50 \$5 50
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One lock and butts—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred and fifty feet refuse—Salinas Valley Lumber Co. One hundred and fifty feet refuse—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co.	\$2 00 \$2 75 \$3 36 \$7 25 \$3 00 \$2 50 \$2 50 \$2 50 \$2 50 \$2 50 \$2 50 \$3 00 \$3 00 \$171 86 \$57 80 \$1 00 \$8 98 \$9 00 \$4 20 \$2 50 \$4 3 50 \$57 80 \$1 00 \$4 20 \$2 50 \$4 20 \$3 4 20 \$4 20 \$3 4 20 \$4 20 \$5 50 \$5 50
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred and fifty feet refuse—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co.	\$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$189 84 \$189 84 \$189 84 \$189 84 \$189 84 \$189 84
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred and fifty feet refuse—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co.	\$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$189 84 \$189 84 \$189 84 \$189 84 \$189 84 \$189 84
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred and fifty feet refuse—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co.	\$2 00 0 2 25 00 43 50 0 4 1 00 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 2 3 4 0 0 4 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One office drawer—J. M. Levy. Furnishing and putting in speaking tubes—J. J. Menges. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred and fifty feet refuse—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co.	\$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$171 86 \$189 84 \$189 84 \$189 84 \$189 84 \$189 84 \$189 84
Three shades—E. Hook. One office rug—J. M. Levy. One office drawer—J. M. Levy. One Ruby gas stove—Oakland Gas Co. One thousand feet surfaced redwood—Henry W. Taylor. Cartage and mill work—Henry W. Taylor. One dozen S. P. R. chairs—California Manufacturing Co. Fifty-eight square yards cocoa matting—E. Hook.  APPENDIX No. 3 Q—Agricultural Experiment Stations—Fencing and Drainage. One thousand and twenty-three pounds galvanized wire—George F. Bell. Five hundred shakes—S. P. Milling Co. Twenty-one feet surfaced—S. P. Milling Co. Two hundred and twenty-two feet surfaced—S. P. Milling Co. Two hundred and forty feet rustic—S. P. Milling Co. One door and window—S. P. Milling Co. One lock and butts—S. P. Milling Co. Three hundred shakes—S. P. Milling Co. Three hundred and fifty feet refuse—Salinas Valley Lumber Co. One hundred and fifty feet refuse—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co. One coil galvanized wire—Salinas Valley Lumber Co.	\$2 00 0 2 25 00 43 50 0 4 1 00 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 30 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 4 0 0 4 2 3 2 3 2 3 4 0 0 4 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2

Expressage—Wells, Fargo & Co.  Expressage on cuttings—Margherita vinevard  Expressage to Mission San José—Wells, Fargo & Co.  Hauling grapes at Cupertino—J. H. McComb  Freight on six hundred pounds plaster—Southern Pacific Co.  Freight and expressage—E. Ginocchio & Bro.  Freight on one thousand five hundred packages drain tile—Southern Pacific Co.  Expressage to Mountain View—Wells, Fargo & Co.  Expressage to Mountain View—Wells, Fargo & Co.  Freight on galvanized leaders—Southern Pacific Co.  Freight on one bale trees—Southern Pacific Co.  Freight on one box trees—Southern Pacific Co.  Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Expressage—Whitney's Express  Freight on two bales trees—Southern Pacific Co.  Freight—E. Ginocchio & Bro.  Freight on eight cords stakes—Southern Pacific Co.  Eight cords grape stakes; freight on, to Paso Robles—Southern Pacific Co.	<b>\$</b> 0 55
Expressage—Wells, Fargo & Co.	1 15
Expressage on cuttings—Margherita vineyard	7 00
Expressage to Mission San José—Wells, Fargo & Co.	25
Hauling grapes at Cupertino—J. H. McComb.	34 00
Freight on six hundred pounds plaster—Southern Pacific Co.	21 25
Freight and expressage—E. Ginocchio & Bro.	2 10
Freight on one thousand five hundred packages drain tile—Southern Pacific	
Co	43 80
Expressage to Mountain View—Wells, Fargo & Co	75
Freight on galvanized leaders—Southern Pacific Co	1 65
Freight on any hole trops. Southern Decific Co.	1 85
Friedly on one half trees—Southern Facility Co.	1 00
Freight on one bare trees—Southern Facine Co.	1 00
Freight on one box trees—Southern Facilic Co.	1 55
Expressage—Wells, Fargo & Co.	2 00
Expressage—W. W. Montague & Co.	50
Expressage—Whitney's Express	50
Freight on two bales trees—Southern Pacific Co.	4 45
Freight—E. Ginocchio & Bro.	2 00
Freight on eight cords stakes—Southern Pacific Co.	80 50
Freight—E. Girrocchio & Bro.	2 75
Freight on eight cords stakes—Southern Pacific Co	63 00
Fight cords grape stakes: freight on, to Paso Robles—Southern Pacific Co	44 80
inglie colds grape seakes, neight on, to I also itsoles bottment I acrite co	
ľ	\$333 91
APPENDIX No. 3 S—Agricultural Experiment Stations—Incidental Expenses.	\$000 UI
ATTENDIA NO. 0 5—Agricultura Emperencia Successia—Treatenate Emperiors.	
Expenses at County Fair, Ione—George Hansen Photographs for exhibit—George Hansen Saltpeter for horses—George Hansen Horseshoe—George Hansen Trimming horse's feet—Julius Forrer Expenses at County Fair, Sacramento—George Hansen Sending grapes to Ione—George Hansen Sending grapes to Ione—George Hansen Ingredients for wax for trees—George Hansen Squirrel poison—George Hansen Postage—George Hansen Horseshoeing—Cox & Williams Auger handles—Cox & Williams Horseshoeing—Cox & Williams Horseshoeing—Cox & Williams Horseshoeing—Cox & Williams Lime—George Hansen Milk for whitewash—George Hansen Expressage on coin—George Hansen Postage—George Hansen	<b>\$6</b> 25
Photographs for a whihit Gaarga Hansan	2 75
Saltmator for horses Goorge Hansen	2 13 25
Three of Corner II	20
Horsesine—George Hansen	75 50
Trimining noise's feet—Julius Forrer	50
Expenses at County Fair, Sacramento—George Hansen	1 50
Sending grapes to lone—George Hansen	1 50
Ingredients for wax for trees—George Hansen	1 75
Squirrel poison—George Hansen	50
Postage—George Hansen	1 00
Horseshoeing—Cox & Williams	2 50
Auger handles—Cox & Williams	50
Sharpening picks and crowbar—Cox & Williams	50
Horseshoeing—Cox & Williams	2 00
Lima George Hensen	2 65
Mill for whitewash_Caorea Hanson	1 00
Typesago on coin Gorge Hanger	1 70
Posters Congo Hongor	1 70
rostage—George Hallsen I C Mit 1 11 6 Com-	75
insurance at Paso Robles—J. C. Mitchell & Sons	21 60
Sheltering horses during rain—George Hansen	1 00
Postage—George Hansen	• 50
Stabling horses—George Hansen	50
Twelve sheets board—George Hansen	2 25
Six sheets blotting—George Hansen	75
	95
Expressage and postage—George Hansen	
Expressage and postage—George Hansen One grape stemmer—A. H. Broad	6 50
Expressage and postage—George Hansen	6 50 1 50
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton	1 50
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three nounds solder—A. T. Cotton	1 50 6 00
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Four hours' work—A. T. Cotton Four hours' work—A. T. Cotton	1 50 6 00 75
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Four hours' work—A. T. Cotton Two tons alfulfs haw—I. M. Alexander	1 50 6 00 75 2 75
Expressage and postage—George Hansen One grape stemmer—A. H. Broad. Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Four hours' work—A. T. Cotton Two cords wood—A. J. Lustfield	1 50 6 00 75 2 75 13 00
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Four hours' work—A. T. Cotton Two tons alfalfa hay—J. M. Alexander Two cords wood—A. Lustfield One brush—F. Gingochie & Bro	1 50 6 00 75 . 2 75 13 00 10 00
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Four hours' work—A. T. Cotton Two tons alfalfa hay—J. M. Alexander Two cords wood—A. Lustfield One brush—E. Ginocchio & Bro.	1 50 6 00 75 2 75 13 00 10 00
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Three pounds solder—A. T. Cotton Two tons alfalfa hay—J. M. Alexander Two cords wood—A. Lustfield One brush—E. Ginocchio & Bro. One can lead and oil—E. Ginocchio & Bro. One keel lead and oil—E. Ginocchio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Three pounds solder—A. T. Cotton Tour hours' work—A. T. Cotton Two tons alfalfa hay—J. M. Alexander Two cords wood—A. Lustfield One brush—E. Ginocchio & Bro. One can lead and oil—E. Ginocchio & Bro. One keg lead and oil—E. Ginocchio & Bro. One segond oil F. Ginocchio & Bro.	1 50 6 00 75 2 75 13 00 10 00 7 5 1 00 3 00
Expressage on coin—George Hansen Postage—George Hansen Insurance at Paso Robles—J. C. Mitchell & Sons Sheltering horses during rain—George Hansen Postage—George Hansen Stabling horses—George Hansen Twelve sheets board—George Hansen Six sheets blotting—George Hansen Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Four hours' work—A. T. Cotton Two cords wood—A. Lustfield One brush—E. Ginocchio & Bro. One can lead and oil—E. Ginocchio & Bro. One can coal oil—E. Ginocchio & Bro. One can coal oil—E. Ginocchio & Bro. One can coal oil—E. Ginocchio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 3 00 1 87 6 00
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 10 00 3 00 1 87 6 00 75
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 75 3 6
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 76 2 50
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 75 36 2 50 25
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 75 36 2 50 25 37
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 75 2 50 25 37
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 75 36 2 50 25 37
One box powder and caps—E. Ginoccnio & Bro.	1 50 6 00 75 2 75 13 00 10 00 75 1 00 3 00 1 87 6 00 75 2 50 25 37 50
Expressage and postage—George Hansen One grape stemmer—A. H. Broad Two pounds copper wire—A. T. Cotton Twenty-four reducers—A. T. Cotton Three pounds solder—A. T. Cotton Three pounds solder—A. T. Cotton Three pounds solder—A. T. Cotton Two tons alfalfa hay—J. M. Alexander Two cords wood—A. Lustfield One brush—E. Ginocchio & Bro. One can lead and oil—E. Ginocchio & Bro. One keg lead and oil—E. Ginocchio & Bro. One box powder and caps—E. Ginocchio & Bro. One box powder and caps—E. Ginocchio & Bro. Two sorews—E. Ginocchio & Bro. Two sorews—E. Ginocchio & Bro. Ten-pound sledge hammer—E. Ginocchio & Bro. One hammer handle—E. Ginocchio & Bro. Hooks—E. Ginocchio & Bro. Two dozen quarts carbon bisulphide—John H. Wheeler Two foot scrapers—Cox & Williams Three horseshoes—Cox & Williams	1 50 6 00 75 2 75 13 00 10 00 3 00 1 87 6 00 3 60 2 50 2 50 25 37 50

Forwarding grain—Geo. Hansen	
Forwarding grain—Geo. Hansen Stabling horse—Geo. Hansen Office lamp—Geo. Hansen	
Office lamn—Geo. Hansen	
Postage—Geo. Hansen	
Staples and pincers-Bennett, Shackelford & LeBlanc	
Office lamp—Geo. Hansen. Postage—Geo. Hansen Staples and pincers—Bennett, Shackelford & LeBlanc One doubletree bar—Bennett, Shackelford & LeBlanc Fifteen pounds 3d nails—Bennett, Shackelford & LeBlanc Eight pounds 10d nails—Bennett, Shackelford & LeBlanc Eight pounds 8d nails—Bennett, Shackelford & LeBlanc Three pounds 10d nails—Bennett, Shackelford & LeBlanc One lock—Bennett, Shackelford & LeBlanc Hinges and butts—Bennett, Shackelford & LeBlanc Hat hooks—Bennett, Shackelford & LeBlanc	
Fifteen pounds 3d nails—Bennett, Shackelford & LeBlanc	
Eight pounds 10d nails—Bennett, Shackelford & LeBlanc	
Eight pounds 8d nails—Bennett, Shackelford & LeBlanc	
Three pounds 10d nails—Bennett, Shackelford & LeBlanc	
One lock—Bennett, Shackelford & LeBlanc	
Hinges and butts—Bennett, Shackelford & LeBlanc	
Hat hooks—Bennett, Shackelford & LeBlanc  Pointing plow—W. C. Henderson  Eight shoes—W. C. Henderson  Ball wicking—Thos. C. Jameson.  Two feet lead pipe—Thos. C. Jameson  Labor on sink—Thos. C. Jameson  Two pieces zinc—John J. Menges	
Pointing plow—W. C. Henderson	
Eight shoes—W C Henderson	
Ball wicking—Thos. C. Jameson	
Two feet lead nine—Thos C. Ismeson	
Labor on sink—Thos C. Jameson	
Two pieces sinc_Tohn I Mangag	
Two pieces zinc—John J. Menges Freight on one bale cuttings—Julius Forrer Pipe and labor on trough—Julius Forrer Trimming horse's feet—Julius Forrer Expenses on dead Goa Hopson	
Pine and labor on trough — Julius Forter	
Trimming horse's fact. Inline Forrer	
Expenses on deed—Geo. Hansen	
One stove board—Hewitt Bros	
Twenty foot 11 inch pine Howitt Bree	
Twen by leet 13-Inch pipe—Hewitt Bros.	
One stove board—Hewitt Bros. Twenty feet 1½-inch pipe—Hewitt Bros. Two bushings—Hewitt Bros. Cutting and threading pipe—Hewitt Bros. Paint and varnish—Hewitt Bros. One horse blanket—E. G. Freeman.	
Point and vornigh Howitt Prog	
One home blanket E C Presman	
One whim E C Program	
One wing—E. G. Freeman	
One pair single lines—E. G. Freeman	
Repairing tug—E. G. Freeman	
Setting shoes—Cox & Williams	
Snarpening pick—Cox & Williams	
Hooks and eyes—Cox & Williams	
Iron plate—Cox & Williams	
Continue of the continue of th	
One horseshoe—Cox & Williams	<b>6</b> 0 75
One horseshoe—Cox & Williams Two quarts flour corn—V. H. Hallock & Son	\$0.75
One horseshoe—Cox & Williams Two quarts flour corn—V. H. Hallock & Son Three pints Japanese gourd—V. H. Hallock & Son	\$0 75 30
One horseshoe—Cox & Williams  Two quarts flour corn—V. H. Hallock & Son  Three pints Japanese gourd—V. H. Hallock & Son  Two quarts cherssas—V. H. Hallock & Son	\$0 75 30 60
One horseshoe—Cox & Williams One horseshoe—Cox & Williams Two quarts flour corn—V. H. Hallock & Son Three pints Japanese gourd—V. H., Hallock & Son Two quarts cherssas—V. H. Hallock & Son One hundred Stachy's affinis—V. H. Hallock & Son	\$0 75 30 60 75
One horseshoe—Cox & Williams One horseshoe—Cox & Williams Two quarts flour corn—V. H. Hallock & Son Three pints Japanese gourd—V. H. Hallock & Son Two quarts cherssas—V. H. Hallock & Son One hundred Stachy's affinis—V. H. Hallock & Son Twenty-five ora—V. H. Hallock & Son	\$0 75 30 60 75 1 25
One horseshoe—Cox & Williams  Two quarts flour corn—V. H. Hallock & Son  Three pints Japanese gourd—V. H. Hallock & Son  Two quarts cherssas—V. H. Hallock & Son  One hundred Stachy's affinis—V. H. Hallock & Son  Twenty-five ora—V. H. Hallock & Son  Four pints Spanish peanuts—V. H. Hallock & Son	\$0 75 30 60 75 1 25 40
One horse blanket—E. G. Freeman One whip—E. G. Freeman One pair single lines—E. G. Freeman Repairing tug—E. G. Freeman Setting shoes—Cox & Williams Sharpening pick—Cox & Williams Hooks and eyes—Cox & Williams Iron plate—Cox & Williams Repairing plow—Cox & Williams One horseshoe—Cox & Williams Two quarts flour corn—V. H. Hallock & Son Three pints Japanese gourd—V. H. Hallock & Son Two quarts cherssas—V. H. Hallock & Son One hundred Stachy's affinis—V. H. Hallock & Son Twenty-five ora—V. H. Hallock & Son Four pints Spanish peanuts—V. H. Hallock & Son Four pints Spanish peanuts—V. H. Hallock & Son	\$0 75 30 60 75 1 25 40
	<b>\$4</b> 05 ]
One horseshoe—Cox & Williams Two quarts flour corn—V. H. Hallock & Son Three pints Japanese gourd—V. H. Hallock & Son Two quarts cherssas—V. H. Hallock & Son One hundred Stachy's affinis—V. H. Hallock & Son Twenty-five ora—V. H. Hallock & Son Four pints Spanish peanuts—V. H. Hallock & Son  Less 40 per cent  Less 40 per cent	\$0 75 30 60 75 1 25 40 \$4 05 1 60
Less 40 per cent	\$4 05 1 60
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Less 40 per cent	\$4 05 1 60
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Less 40 per cent	\$4 05 1 60
Less 40 per cent	\$4 05 1 60

Hook—Cox & Williams  Subscription to Association of American Colleges and Experiment Stations. Three pounds sorghum seed—Trumbull & Beebe	\$0 25
Pick snarpened—Cox & Williams	25
Subscription to Association of American Coneges and Experiment Stations.	10 00
Three pounds sorgium seed—Trumpun & Deebe 30 40	
Two pounds write crover seed—Trumburi & Deepe	
Four rounds heet seed—Trumbull & Reebe	
Three pounds carrot seed—Trumbull & Reebe 200	
One package celery seed—Trumbull & Beebe 15	
Four pounds corn seed—Trumbull & Beebe 60	
Six ounces cucumber seed—Trumbull & Beebe	
One pound mushroom spawn—Trumbull & Beebe 25	•
Four ounces muskmelon seed—Trumbull & Beebe 60	
Six omces watermelon seed—Trumbull & Beebe 75	
Three ounces onion seed—Trumbull & Beebe 90	
Eight pounds pea seed—Trumbull & Beebe 1 30	
Three packages pepper seed—I rumbuli & Beebe	
Three ourses squash seed. Trumbull & Deabe	
One pound squash seed—Trumbull & Reebe	
Four ounces tomato seed—Trumbull & Beebe	
Nine ounces turnin seed—Trumbull & Beebe. 90	
Three packages egg plant seed—Trumbull & Beebe 30	
Seven and one half ounces cabbage seed—Trumbull & Beebe	
One half ounce celery seed—Trumbull & Beebe 50	
\$18 51   Less 10 per cent 1 85	
Less 10 per cent 1 85	10 00
Assorted seeds. Thomas A. Cov. & Co.	16 66 11 45
Callegram to Italy—Stawart & Trownridge	4 60
Assorted flower seeds—I ames M. Thorburn & Co.	3 36
One filter and packing—California Pottery and Terra Cotta Co.	10 50
Four Idaho pear trees—The Idaho Pear Co.	8 00
Postage and telegram—George Hansen	85
Alum and sulphur—George Hansen	80
Making water troughs—George Hansen	4 50
Postage—George Hansen	70
Postage—George Hansen One pick steeled and sharpened—Cox & Williams	70 1 25
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four shoes—Cox & Williams	70 1 25 3 2 00
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams	70 1 25 2 00 1 00 1 50
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Renairing neckwoke straps—F G Freeman	70 1 25 2 00 1 00 1 50 1 25
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman	70 1 25 2 00 1 00 1 50 1 25
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing bridle—E. G. Freeman	70 1 25 2 00 1 00 1 50 1 25 50 25
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman Repairing bridle—E. G. Freeman Martingal—E. G. Freeman	70 1 25 2 00 1 00 1 50 1 25 50 25 1 50
Postage—George Hansen. One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman Repairing bridle—E. G. Freeman Martingal—E. G. Freeman One bit, and paint and glue—E. G. Freeman	70 1 25 2 00 1 00 1 50 1 25 50 25 1 50 1 15
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman Repairing bridle—E. G. Freeman Martingal—E. G. Freeman Martingal—E. G. Freeman Martingal—E. G. Freeman Eight horseshoes—Clark & Elliott	70 1 25 2 00 1 00 1 50 1 25 50 25 1 50 1 15 3 50
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman Repairing bridle—E. G. Freeman Martingal—E. G. Freeman One bit, and paint and glue—E. G. Freeman Bight horseshoes—Clark & Elliott One kingbolt—Clark & Elliott	70 1 25 2 00 1 00 1 50 1 50 1 50 25 1 50 1 15 3 50 75
Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman Repairing bridle—E. G. Freeman Repairing bridle—E. G. Freeman One bit, and paint and glue—E. G. Freeman Eight horseshoes—Clark & Elliott One kingbolt—Clark & Elliott	70 1 25 2 00 1 00 1 50 1 26 50 25 1 50 1 16 3 50 - 75
Assorted seeds—Thomas A. Cox & Co. Cablegram to Italy—Stewart & Trowbridge Assorted flower seeds—James M. Thorburn & Co. One filter and packing—California Pottery and Terra Cotta Co. Four Idaho pear trees—The Idaho Pear Co. Postage and telegram—George Hansen Alum and sulphur—George Hansen Making water troughs—George Hansen Postage—George Hansen One pick steeled and sharpened—Cox & Williams Four shoes—Cox & Williams Four picks sharpened—Cox & Williams Three shoes—Cox & Williams Repairing neckyoke straps—E. G. Freeman Repairing hame straps—E. G. Freeman Martingal—E. G. Freeman One bit, and paint and glue—E. G. Freeman Bight horseshoes—Clark & Elliott One kingbolt—Clark & Elliott	70 1 25 2 00 1 00 1 50 1 26 50 25 1 50 1 15 3 50 76 \$303 16
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	70 1 25 2 00 1 00 1 50 1 25 50 25 1 50 1 15 3 50 75 \$303 16
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$500 10
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	70 1 25 2 00 1 00 1 50 1 26 50 2 55 1 50 1 15 3 50 7 75 \$303 16
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50 1 00
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50 1 00 3 50
APPENDIX No. 3 T—Agricultural Experiment Stations—Postage and Stationery.  Postage—George Hansen Postage—George Hansen Postage—George Hansen Telegrams—George Hansen Two hundred and fifty 1-cent stamps—N. B. Byrne Three hundred and seventy-five 2-cent stamps—N. B. Byrne One thousand postal cards—N. B. Byrne One and one half dozen records—J. J. Evans One half dozen records—J. J. Evans Two and one half quires gum folio—J. J. Evans Twenty-seven boxes gum labels—J. J. Evans Two reams foolscap—J. J. Evans One ream foolscap—J. J. Evans Ten sheets blotting—J. J. Evans Three waste baskets—J. J. Evans Three waste baskets—J. J. Evans Three bustles crimson ink—J. I. Evans	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50 1 00 3 00 75
APPENDIX No. 3 T—Agricultural Experiment Stations—Postage and Stationery.  Postage—George Hansen Postage—George Hansen Postage—George Hansen Telegrams—George Hansen Two hundred and fifty 1-cent stamps—N. B. Byrne Three hundred and seventy-five 2-cent stamps—N. B. Byrne One thousand postal cards—N. B. Byrne One and one half dozen records—J. J. Evans One half dozen records—J. J. Evans Two and one half quires gum folio—J. J. Evans Twenty-seven boxes gum labels—J. J. Evans Two reams foolscap—J. J. Evans One ream foolscap—J. J. Evans Ten sheets blotting—J. J. Evans Three waste baskets—J. J. Evans Three waste baskets—J. J. Evans Three bustles crimson ink—J. I. Evans	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50 1 50 3 75
APPENDIX No. 3 T—Agricultural Experiment Stations—Postage and Stationery.  Postage—George Hansen Postage—George Hansen Postage—George Hansen Telegrams—George Hansen Two hundred and fifty 1-cent stamps—N. B. Byrne Three hundred and seventy-five 2-cent stamps—N. B. Byrne One thousand postal cards—N. B. Byrne One and one half dozen records—J. J. Evans One half dozen records—J. J. Evans Two and one half quires gum folio—J. J. Evans Twenty-seven boxes gum labels—J. J. Evans Two reams foolscap—J. J. Evans One ream foolscap—J. J. Evans Ten sheets blotting—J. J. Evans Three waste baskets—J. J. Evans Three waste baskets—J. J. Evans Three bustles crimson ink—J. I. Evans	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50 1 00 3 75 1 70
APPENDIX No. 3 T-Agricultural Experiment Stations-Postage and Stationery.	\$1 25 60 75 1 35 2 50 7 50 10 00 14 40 6 00 1 00 2 50 5 00 3 50 1 50 3 75

Indelible pencils—I. I. Evans	\$0 70
Two copying books—I. J. Evans	9 ∧
Indelible pencils—J. J. Evans Two copying books—J. J. Evans Twenty 5-cent stamps—N. B. Byrne One thousand 1-cent stamps—N. B. Byrne One thousand 1-cent stamps—N. B. Byrne One stamp moistener—C. Beach One pint Comb. ink—J. J. Evans Six dozen J. J. E. pencils—J. J. Evans Forty diaries—J. J. Evans Three dozen note books—J. J. Evans Three dozen note books—J. J. Evans One quart mucilage—J. J. Evans One dozen passbooks—J. J. Evans One dozen note pads—J. J. Evans One dozen Globe letter files One box rubber bands—J. J. Evans Paper fasteners—J. J. Evans Two copying books—J. J. Evans Two copying books—J. J. Evans Two copying books—J. J. Evans Telegram—George Hansen Telegram—George Hansen One Remington typewriter—G. G. Wickson & Co. Stamps—N. B. Byrne	1 0
One thousand 1-cent stamps—N. B. Byrne	10 0
Seven hundred 2-cent stamps—N. B. Byrne	14 0
One stamp moistener—C. Beach	78
One pint Comb. ink—J. J. Evans	7!
Six dozen J. J. E. pencils—J. J. Evans	1 50 7 00
Forty diaries—J. J. Evans	7 00
Three dozen note books—J. J. Evans	2 50
One quart mucilage—J. J. Evans	1 00
Two dozen passbooks—J. J. Evans	4 2
One dozen note pads—J. J. Evans	1 50
Three bottles Stylo. ink—J. J. Evans	7
One dozen Globe letter files.	4 30
One box rubber bands—J. J. Evans	4 3 1 5
Paper fasteners—J. J. Evans	50
Two copying books—J. J. Evans	3 00
Postage—George Hansen	50
Telegram—George Hansen	40
One Remington typewriter—G. G. Wickson & Co	100 00
Supplies for same—G. G. Wickson & Co.	18 78
Stamps—N. B. Byrne	25 0
-	
	\$268 9
APPENDIX No. 3 U—Agricultural Experiment Stations—Printing.	
1	•
Seven plates for annual report—Dewey Engraving Co	<b>\$4</b> 8.50
Drawings for above plates—Ross F. Tucker	23 00
Two thousand five hundred bulletins No. 83—Dewey & Co	11 2
Three thousand bulletins No. 84—Dewey & Co.	13 50
Three thousand bulletins No. 85—Dewey & Co.	13 50
Two engravings of experiment grounds—Dewey Engraving Co.	8 0
Eight engravings of experiment buildings—Dewey Engraving Co.	12 0
Three thousand bulletins No. 86—Dewey & Co.	13 5
Seven plates for annual report—Dewey Engraving Co.  Drawings for above plates—Ross F. Tucker Two thousand five hundred bulletins No. 83—Dewey & Co. Three thousand bulletins No. 84—Dewey & Co. Three thousand bulletins No. 85—Dewey & Co. Two engravings of experiment grounds—Dewey Engraving Co. Eight engravings of experiment buildings—Dewey Engraving Co. Three thousand bulletins No. 86—Dewey & Co. Three thousand bulletins No. 87—Dewey & Co.	13 5
	\$156 7
	\$0 17 70 20 3 5 5 7 5 6 5 5 1 1 0 7 5 0 9 2 2 5 7 3 3 2 2 4 3 0 1 1 3 8
	\$0 1 7 2 0 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 9
	\$0 1 2 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 8
	\$0 1 7 2 0 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 9
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo. F. Bell Lubricating oil—Geo. F. Bell. Squirrel poison—Geo. F. Bell. One barrel lime—Geo. F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Twenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fifty-seven pounds barley—E. Ginocchio & Bro. Eighty pounds rion—R. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Tone pair hinges—E. Ginocchio & Bro. Four thousand four hundred and eighty pounds hay—Gianetti Belnomini Two thousand eight hundred and thirty pound hay—Geo. Rinehart & Bros. One played the straped of the pound hay—Geo. Rinehart & Bros. One played mad twenty pounds hay—David Mattley	\$0 1 7 2 0 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 9
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo. F. Bell Lubricating oil—Geo. F. Bell. Squirrel poison—Geo. F. Bell. One barrel lime—Geo. F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Twenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fifty-seven pounds barley—E. Ginocchio & Bro. Eighty pounds rion—R. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Tone pair hinges—E. Ginocchio & Bro. Four thousand four hundred and eighty pounds hay—Gianetti Belnomini Two thousand eight hundred and thirty pound hay—Geo. Rinehart & Bros. One played the straped of the pound hay—Geo. Rinehart & Bros. One played mad twenty pounds hay—David Mattley	\$0 1 2 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 8
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo. F. Bell Lubricating oil—Geo. F. Bell. Squirrel poison—Geo. F. Bell. One barrel lime—Geo. F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Twenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fifty-seven pounds barley—E. Ginocchio & Bro. Eighty pounds rion—R. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Tone pair hinges—E. Ginocchio & Bro. Four thousand four hundred and eighty pounds hay—Gianetti Belnomini Two thousand eight hundred and thirty pound hay—Geo. Rinehart & Bros. One played the straped of the pound hay—Geo. Rinehart & Bros. One played mad twenty pounds hay—David Mattley	\$0 1 7 2 0 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 9
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo, F. Bell Lubricating oil—Geo, F. Bell. Squirrel poison—Geo, F. Bell. One barrel lime—Geo, F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Tenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fitty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two thousand four hundred and eighty pounds hay—Geo. Rinehart & Bros. One thousand and twenty pounds hay—David Mattley Wire screen—Hewitt Bros. Two pair strap hinges—Hewitt Bros.	
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo, F. Bell Lubricating oil—Geo, F. Bell. Squirrel poison—Geo, F. Bell. One barrel lime—Geo, F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Tenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fitty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two thousand four hundred and eighty pounds hay—Geo. Rinehart & Bros. One thousand and twenty pounds hay—David Mattley Wire screen—Hewitt Bros. Two pair strap hinges—Hewitt Bros.	\$0 1 7 2 0 0 1 3 5 5 7 5 1 0 0 3 9 2 2 2 1 5 7 2 3 4 3 0 1 3 9
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo, F. Bell Lubricating oil—Geo, F. Bell. Squirrel poison—Geo, F. Bell. One barrel lime—Geo, F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Tenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fitty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two thousand four hundred and eighty pounds hay—Geo. Rinehart & Bros. One thousand and twenty pounds hay—David Mattley Wire screen—Hewitt Bros. Two pair strap hinges—Hewitt Bros.	\$0 17 70 20 3 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 5 7 5 5 7 5 5 7 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7
APPENDIX No. 3 V—Agricultural Experiment Stations—Supplies.  Salt—Geo. F. Bell Lubricating oil—Geo. F. Bell. Squirrel poison—Geo. F. Bell. One barrel lime—Geo. F. Bell. Repairing harness—Julius Forrer Two hame straps—Julius Forrer Two hame straps—Julius Forrer Ground barley—E. Ginocchio & Bro. Hinges and catches—E. Ginocchio & Bro. Four pair butts—E. Ginocchio & Bro. Lock and staples—E. Ginocchio & Bro. Ten pounds nails—E. Ginocchio & Bro. Twenty pounds nails—E. Ginocchio & Bro. Barley—E. Ginocchio & Bro. Brads—E. Ginocchio & Bro. One hundred and forty-seven pounds barley—E. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. One hundred and fifty-seven pounds barley—E. Ginocchio & Bro. Eighty pounds rion—R. Ginocchio & Bro. Two pair hinges—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Two padlocks and chain—E. Ginocchio & Bro. Tone pair hinges—E. Ginocchio & Bro. Four thousand four hundred and eighty pounds hay—Gianetti Belnomini Two thousand eight hundred and thirty pound hay—Geo. Rinehart & Bros. One played the straped of the pound hay—Geo. Rinehart & Bros. One played mad twenty pounds hay—David Mattley	\$0 17 70 20 3 5 5 7 5 6 5 5 1 1 0 7 5 0 9 2 2 5 7 3 3 2 2 4 3 0 1 1 3 8

One basin—Hewitt Bros	<b>\$</b> 0 75
One ton wheat hay—O. F. Manock	6 50
One cord wood—A. Lustfield	4 50
One thousand and forty nounds harloy. I. Coldman & Co.	20 11 44
Fifty-six feet T. and G. lumber—L. Newman & Co.	2 24
One hundred and sixty-eight feet lumber—L. Newman & Co.	<del></del> .
One thousand four hundred and twenty-eight feet surfaced lumber—L. New-	
man & Co.	37 45
Twenty five pieces T and G lumber I Nowman & Co.	2 56 5 32
Two thousand one hundred and fifty-five feet lumber—L. Newman & Co	48 49
Eight pieces T. and G. lumber-L. Newman & Co.	2 56
Fifty pounds nails—L. Newman & Co.	2 25
Scotia molding—L. Newman & Co.	2 82
Seven hundred and seventy four feet lumber. I. Newman & Co.	40 17 50
One hundred and fifty pounds round iron—E. Ginocchio & Bro.	7 50
Freight and expressage—E. Ginocchio & Bro	4 75
Padlock and chain—E. Ginocchio & Bro.	65
One hundred and governty nounds ground healey. F. Cincophia & Pro	1 50 2 55
One thundred and sixty-eight feet lumber—L. Newman & Co. One thousand four hundred and twenty-eight feet surfaced lumber—L. Newman & Co. Six pieces rustic—L. Newman & Co. Twenty-five pieces T. and G. lumber—L. Newman & Co. Two thousand one hundred and fifty-five feet lumber—L. Newman & Co. Eight pieces T. and G. lumber—L. Newman & Co. Fifty pounds nails—L. Newman & Co. Scotia molding—L. Newman & Co. Scotia molding—L. Newman & Co. Seven hundred and seventy-four feet lumber—L. Newman & Co. One hundred and fifty pounds round iron—E. Ginocchio & Bro. Freight and expressage—E. Ginocchio & Bro. Padlock and chain—E. Ginocchio & Bro. Level—E. Ginocchio & Bro. One hundred and seventy pounds ground barley—E. Ginocchio & Bro. Twenty pounds 10d nails—E. Ginocchio & Bro. Twenty pounds 10d nails—E. Ginocchio & Bro. Dressing and collars—E. G. Freeman Strap—E. G. Freeman Repairing harness—E. G. Freeman Whip—E. G. Freeman Repairing lines, breast strap, and trees One set breeching One sto hav—W. G. Turner	1 00
Two hundred and twenty-six pounds ground barley—E. Ginocchio & Bro.	3 39
Dressing and collars—E. G. Freeman	85
Strap—E. G. Freeman	25
Whin F G Frances	1 60 50
Renairing lines, breast stran, and trees	1 75
One set breeching	7 00
One saddle and bridle	26 00
Two saddle blankets	2 50 7 00
One ing_I M Lavy	7 00 50
One lock—J. M. Levy	40
One barrelJ. M, Levy	2 50
One can coal oil—J. M. Levy	1 60
One hold W. C. Hondowson	7 00 15
One hand wheel_W C Henderson	50
One new shoe—W. C. Henderson	45
Three new shoes—W. C. Henderson	1 25
Repairing pick—W. C. Henderson	25
One bub bond W. C. Henderson	4 00 25
Four shoes—W. C. Henderson	1 75
Two locks—J. M. Levy	80
Hatchet handle—J. M. Levy	. 10
Sandpaper—J. M. Levy	15 1 25
Three pick handles I M Levy	1 25 75
Two pair hinges and screws—J. M. Levy	75
One ax-J. M. Levy	1 25
Axle grease—J. M. Levy	50
One funite—Hewitt Bros.	25 2 76
Cutting nine—Hewitt. Bros	25
Cutting pipe—Hewitt Bros.	25
Reducer—Hewett Bros.	75
One quart turps.—Hewitt Bros.	25 50
One ton grain have O. F. Manack	50 7 00
Five thousand eight hundred and five pounds hav—Thomas Huev	26 10
Eighty-four pounds wild oats—Trumbull & Beebe	1 47
Five pounds orchard grass—Trumbull & Beebe	1 00
Two sacks wild cats Trumbull & Beebe	25 2 98
Cartage—Trumbull & Reebe	2 50 50
Nine sacks ground barley—Geo. F. Bell	6 55
Ink-Geo. F. Bell	30
Preignt on soap—Geo. F. Bell	25 4 50
Repairing lines, breast strap, and trees. One saddle and bridle Two saddle blankets One ton hay—W. G. Turner. One jug—J. M. Levy One lock—J. M. Levy One barrel—J. M. Levy One can coal oil—J. M. Levy One ton alfalfa hay—A. W. Starr One bolt—W. C. Henderson. One band wheel—W. C. Henderson. One new shoe—W. C. Henderson. Three new shoes—W. C. Henderson Repairing pick—W. C. Henderson One hub band—W. C. Henderson Four shoes—W. C. Henderson Four shoes—W. C. Henderson Four shoes—W. C. Henderson Two locks—J. M. Levy Hatchet handle—J. M. Levy Sandpaper—J. M. Levy Three pick handles—J. M. Levy Three pick handles—J. M. Levy Three pick handles—J. M. Levy Two pair hinges and screws—J. M. Levy One ax—J. M. Levy Axle grease—J. M. Levy One funnel—Hewitt Bros. Thirty-four and one half feet 1-inch pipe—Hewitt Bros. Cutting pipe—Hewitt Bros. Cutting pipe—Hewitt Bros. Cutting pipe—Hewitt Bros. Cutting pipe—Hewitt Bros. One quart turps.—Hewitt Bros. Cutting pipe—Hewitt Bros. Cutting pipe	4 50 8 80
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# Twine—E. Ginocchio & Bro. Two boxes Hercules powder—E. Ginocchio & Bro. Two boxes Hercules powder—E. Ginocchio & Bro. One box caps—E. Ginocchio & Bro. Freight—E. Ginocchio & Bro. Two hundred feet fuse—E. Ginocchio & Bro. Seventy-four pounds ground barley—E. Ginocchio & Bro. Paint—E. Ginocchio & Bro. One whitewash brush—J. M. Levy One can coal oil—J. M. Levy One paint brush—J. M. Levy Ten thousand pamphlet envelopes—H. S. Crocker & Co. Six barrels land plaster—Lucas & Co. Can for tree wax—Hewitt Bros. Can for tree wax—Hewitt Bros. Putty—Hewitt Bros. One keg white lead—J. M. Levy Linseed oil—J. M. Levy Turpentine—J. M. Levy Castor oil—J. M. Levy Castor oil—J. M. Levy Dusters—J. M. Levy Gutter moldings—J. M. Levy Pick and handle—J. M. Levy One can coal oil—J. M. Levy Repairing plow—Cox & Williams Steel wedges—Cox & Williams Two sledge runners—Cox & Williams Chain and rings—Cox & Williams Chain and rings—Cox & Williams Steeling picks—Cox & Williams Sharpening picks—Cox & Williams One ton hay—O. F. Manock One cord wood—A. Lustfield Repairing harness—T. F. Hood Two brushes and comb—T. F. Hood Two straps and one set washers—T. F. Hood Repairing harness—T. F. Hood Ore harness—T. F. Hood One buggy shaft—J. Hollopeter One crossbar—J. Hollopeter One singletree—J. Hollopeter One pickax—Geo. F. Bell One nail puller—Geo. F. Bell One can kerosene—Geo. F. Bell One bottle castor oil—Geo. F. Bell One bottle turpentine—Geo. F. Bell Rope—Geo. F. Bell One thousand four hundred and fifty-five pounds barley hay—Geo. Rinehart & Bros. Hay—Geo. F. Bell. Ten sacks barley—Geo. F. Bell. Three and one half pounds chain—E. Ginocchio & Bro. Two hundred and fifty pounds barley—E. Ginocchio & Bro. Three horseshoes—Cox & Williams Links in chain—Cox & Williams Two shoes—Cox & Williams Paint and brush—E. Ginocchio & Bro. Two hundred and twenty-two pounds barley—E. Ginocchio & Bro. Two hundred and twenty-two pounds barley—E. Ginocchio & Bro. Two cords wood—A. Lustfield One ton alfalfa hay—O. F. Manock One 2-gallon demijohn—J. Goldman & Co. \$1 25 Fifty pounds 10d nails—J. Goldman & Co. 2 75 Two kegs 8d nails—J. Goldman & Co. 11 00 One keg 20d nails—J. Goldman & Co. 4 50 One thousand one hundred and thirty-five pounds barley—J. Goldman & Co. 14 19 Less error in charges of nails 19 13 Six thousand two hundred and seventy pounds hay-J. N. Bryant..... Rope—Geo. F. Bell One thousand and ninety pounds barley, ground—Geo. F. Bell Six sacks barley seed—Geo. F. Bell

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) 9s	Slate—Geo. F. Bell Envelopes—Geo. F. Bell. One paint brush—F. M. Farwell Three thousand envelopes—H. S. Crocker & Co. One hundred feet galvanized spiral pipe—W. W. Montague & Co. Five apricot trees—California Nursery Co. Nine pear trees—California Nursery Co. Four peach trees—California Nursery Co. Four peach trees—California Nursery Co. Fifty-three apple trees—California Nursery Co. Two quince trees—California Nursery Co. Two quince trees—California Nursery Co. Seven filbert trees—California Nursery Co. Seven filbert trees—California Nursery Co. Three fig trees—California Nursery Co. Three fig trees—California Nursery Co. Five plum trees—California Nursery Co. Forty currant cuttings—California Nursery Co. Thirty gooseberry cuttings—California Nursery Co. Sixty strawberry plants—California Nursery Co. Sixty strawberry plants—California Nursery Co. Eighty raspberry cuttings—California Nursery Co. Eighty raspberry cuttings—California Nursery Co. Five apricot trees—California Nursery Co. Five apricot trees—California Nursery Co.	60 5
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s E	The plum trees—California Nursery Co.	2
4	Ten prune trees—Cantornia Nursery Co.	4
And	Forty currant cuttings—Cantornia Nursery Co.	4
	Thirty gooseoerry cuttings—California Nursery Co.	4
X.	Sixty blackberry cuttings—California Nursery Co.	4
25 25 50 50 50 50 50 50 50 50 50 50 50 50 50	Sixty strawberry plants—Camornia Nursery Co.	3
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	Four pear trees—California Nursery Co.	
25	Two nectarine trees—California Nursery Co.	,
漕	Three almond trees—California Nursery Co.	1
4	Five plum trees—California Nursery Co	1
3	Twelve prune trees—California Nursery Co	3
塦	Plum trees—California Nursery Co.	
4	One fig tree—California Nursery Co.	1
Ŧ	Eighty raspberry cuttings—California Nursery Co. Packing—California Nursery Co. Five apricot trees—California Nursery Co. Four pear trees—California Nursery Co. Two nectarine trees—California Nursery Co. Three almond trees—California Nursery Co. Three almond trees—California Nursery Co. Tive plum trees—California Nursery Co. Twelve prune trees—California Nursery Co. Plum trees—California Nursery Co. One fig tree—California Nursery Co. Two chestnut trees—California Nursery Co. Two pomegranate trees—California Nursery Co. Thirty currant cuttings—California Nursery Co. Thirty gooseberry cuttings—California Nursery Co. Sixty blackberry cuttings—California Nursery Co. Eighty raspberry cuttings—California Nursery Co. Eighty raspberry cuttings—California Nursery Co. Packing—California Nursery Co.	1
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# Packing—H. H. Berger & Co. One cord wood—A. Lustfield Freight on trees—George F. Bell Freight on poison—George F. Bell Frieght on poison—George F. Bell Nine hundred and eighty-five pounds ground barley—George F. Bell One thousand two hundred and eighty pounds hay—George F. Bell Repairing saw and bolt—W. C. Henderson Repairing spring—W. C. Henderson Four horseshoes—W. C. Henderson Setting horseshoes—W. C. Henderson Fourteen pounds staples—Bennett, Shakelford & LeBlanc Five pound 10d nails—Bennett, Shakelford & Le Blanc Eight olives, Lavayino—F. Lüdemann Five pound 10d nais—Bennett, Snakehord & Le Blanc Eight olives, Lavayino—F. Lüdemann. Twelve tea plants—F. Lüdemann. Four Chamerops excelsa—F. Lüdemann. Four Erethea edulis—F. Lüdemann. Four Erethea glauca—F. Lüdemann Six Washingtonia—F. Lüdemann. One box and packing—F. Lüdemann. Eighteen apple trees—John Bidwell. One hundred Thompson's Seedless roots—Sutter County Fruit Co... Two thousand eight hundred and thirty-five pounds barley hay—George H. Rinehart & Bros. Sixty-seven pounds bran—E. Ginocchio & Bro. Two hundred and twenty-four pounds barley—E. Ginocchio & Bro. Window and staples—E. Ginocchio & Bro. Window and scapes—E. Ginocchio & Bro. Two hundred and sixty-two pounds barley—E. Ginocchio & Bro. Two pounds chain—E. Ginocchio & Bro. Four hundred and eleven pounds ground barley—E. Ginocchio & Bro. One mattock—E, Ginocchio & Bro. Five gallons kerosene oil—Geo. F. Bell. Sulphur—Geo. F. Bell. Wire netting—Geo. F. Bell. Two thousand nine hundred and ninety-four pounds hay-Geo. F. Bell..... Two thousand nine hundred and ninety-four pounds hay—Geo. F. Bell. Castor oil—Geo. F. Bell One empty barrell—Geo. F. Bell Ink—Geo. F. Bell One cord wood—A. W. Starr One thousand and ten pounds ground barley—J. Goldman & Co. One bottle lubricating oil—J. Goldman & Co. Cotton twine—Geo. F. Bell Two thousand three hundred and twenty-five pounds hay—Geo. F. Bell. Six hundred and forty pounds barley—Geo. F. Bell. Two pounds white lead—Geo. F. Bell. Six pounds shorts—Geo. F. Bell. One pound powder—Geo. F. Bell. One pound powder—Geo. F. Bell. Caps—Geo. F. Bell Repairing halters—T. F. Hood One buggy whip—T. F. Hood

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8	Ten walnut trees—California Nursery Co.	5 00
ä	Twenty-nve locust trees—California Nursery Co. Fifteen maple trees—California Nursery Co. Ten sycamore trees—California Nursery Co. Ten walnut trees—California Nursery Co. Five Grevillea robusta—California Nursery Co.	1 25
240 220 124 150	Packing—California Nursery Co. One thousand eight hundred and seventeen pounds barley hay—Geo. H. Rinehart & Bros. Two thousand eight hundred and twenty-six pounds barley hay—Geo. H.	65
0 8	One thousand eight hundred and seventeen pounds barley hav—Geo. H.	
4 U	Rinchart & Bros	22 70
1 4	Two thousand sight hundred and twenty six pounds harlay hav Goo H	22 10
24	Bi-b-4 2 De-	35 <b>30</b>
150	Rinenari & Bros.	20 20
15	Screws-J, M. Levy	50
16	One can coal oil—J. M. Levy	1 62
4 50	Axle grease—J. M. Levy	50
60	One hundred and ninety-five pounds barley—J. M. Levy	3 17
V W	One ax—J. M. Levy	1 25
25.4	Seven pounds rupe—I. M. Levy	1 40
35 🙀	One thousand eight hundred and seventeen pounds barley hay—Geo. H. Rinehart & Bros. Two thousand eight hundred and twenty-six pounds barley hay—Geo. H. Rinehart & Bros. Screws—J. M. Levy One can coal oil—J. M. Levy Axle grease—J. M. Levy One hundred and ninety-five pounds barley—J. M. Levy One ax—J. M. Levy Seven pounds rope—J. M. Levy One bax rivets—J. M. Levy Seven pounds date of the seven pounds barley—E. Ginocchio & Bro. One hundred and forty pounds barley—E. Ginocchio & Bro. Assorted trees—T. V. Munson Eight olive trees—Caras Valley Nursery Seventy-five apricot trees—Grass Valley Nursery Two barrels land plaster—San Joaquin Lumber Co. One fork, three hoes—Julius Forrer Trom Sinch bolts—Julius Forrer Repairing and furnishing halter straps—Julius Forrer Currycomb and brush—Julius Forrer Expressage on hose—Julius Forrer Trimming horse's feet—Julius Forrer Trimming horse's feet—Julius Forrer Trimming horse's feet—Julius Forrer One bolt for gatepost. One hundred and ninety-five pounds barley—J. M. Levy Powder, shot, and wads—J. M. Levy One gallon castor oil—J. M. Levy One keyhole saw—J. M. Levy One hundred and eighty pounds barley—J. M. Levy Freight on cuttings—E. Ginocchio & Bro. Window fasteners—E. Ginocchio & Bro. One hundred and eighty-three pounds barley—E. Ginocchio & Bro. Freight—E. Ginocchio & Bro. One hundred and eighty-three pounds barley—E. Ginocchio & Bro. One hundred and eighty-three pounds barley—E. Ginocchio & Bro. One hundred and eighty-three pounds barley—E. Ginocchio & Bro. One hundred and eighty-three pounds barley—E. Ginocchio & Bro. One hundred and seventy-five pounds barley—E. Ginocchio & Bro. One hundred and seventy-five pounds barley—E. Ginocchio & Bro. One hundred and seventy-five pounds barley—Geo. Rinehart & Bros. Plattuere blowpipe—D. Van Nostrand & Co. Tw	4 39
્રશ	Invitation and seventy pounds barrey—v. M. Devy	50
33753 2153 63	Common named many I. M. Levy	1 40
3 🕅	Seven pounds rope—J. M. Levy	1 40
2 %	One box rivets—J. M. Levy	50
1 8	Five hundred shakes—F. M. Whitmore	4 50
0 9	Two hundred and forty pounds barley—E. Ginocchio & Bro	4 20
0.99	One hundred and forty-five pounds bran—E. Ginocchio & Bro.	2 17
១ ឃ្	Assorted treesT. V. Munson	8 15
a)	Fight alive trees California Nursery Co	6 00
1 %	One hand and fifty need tweet Character Valley Named and	00 0
	One hundred and fitty peach trees—trass valley Nursery	3 00
1 2 0 0 0 1 2 5 0 0 2 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0	seventy-nve apricot trees—Grass valley Nursery	1 50
1 %	Two barrels land plaster—San Joaquin Lumber Co	9 00
0 4	One fork, three hoes—Julius Forrer	3 00
2 0	Two 8-inch bolts—Julius Forrer	20
ΤÃ	Repairing and furnishing halter strans—Julius Forrer	1.75
1.49	Currycomb and brush—Julius Forrer	1 38
2 5	Expressage on hose Inline Forrer	90
22 🐧	Project on numer Trains Downers	1 35
c)ú	Tright on bump—Junus Polici	T 00
10	And Life Street Julius Forrer	50
$\hat{2}$	One bolt for gatepost	25
2 0	One hundred and ninety-five pounds barley—J. M. Levy	3 67
0 10	Powder, shot, and wads—J. M. Levy	1 20
5 9	Plow-points—J. M. Levy	2 25
3 0 3 0 1 7 6 3	Soap and blind—J. M. Levy	1 25
174	One keyhole saw—I. M. Levy	50
6 %	One callon castor oil—I M Tevy	1 75
3 %	One hundred and eighter nounds herlow T. M. Town	3 15
- 75 -	Unit number and eighty pounds basiley—J. W. Devy	9 10
39 🕏	rieight on cuttings—E. Ginocchie & Bro.	1 00
90 W	window lasteners—E. Ginocchio & Bro.	75
i al	Une nundred and eighty-three pounds barley—E. Ginocchio & Bro	3 20
Ţ	Freight—E. Ginocchio & Bro.	35
1 0	One hundred and seventy-five pounds barley—E. Ginocchio & Bro	3 06
7 9 1 5 1 5 3	One hundred and fifty pounds bran—E. Ginocchio & Bro.	2 25
89	Two dozen books and paint—E. Ginocchio & Bro.	$\tilde{1}$ $\tilde{7}\tilde{5}$
16,#	Expressage—E. Ginocchio & Bro	1 75
25	Rivet numb—K Ginocahio & Bru	50
12	Land of P Cinagabia & Pro	1 00
- 3	Ott Harris January Land Roll forth normal holes Co. Distance & D.	T 00
. \$	one mousand seven nundred and forty pounds pariey—Geo. Rinehart & Bros.	1 00 21 75 4 20
4 Å 12 Ø	Rivet punch—E. Ginocchio & Bro. Lard oil—E. Ginocchio & Bro. One thousand seven hundred and forty pounds barley—Geo. Rinehart & Bros. Plattuere blowpipe—D. Van Nostrand & Co. Two thousand and seventy 4-foot grape stakes—Santa Cruz Lumber Co. One thousand six hundred and fifty 6-foot grape stakes—Santa Cruz Lumber Co. Two thousand and seventy 4-foot grape stakes—Santa Cruz Lumber Co. One thousand six hundred and fifty 6-foot grape stakes—Santa Cruz Lumber Co. Two thousand and seventy 4-foot grape stakes—Santa Cruz Lumber Co. One thousand one hundred and fifty 6-foot grape stakes—Santa Cruz Lumber Co. Three sets sieves—Justinian Caire	4 20
12	Two thousand and seventy 4-foot grape stakes—Santa Cruz Lumber Co	28 98
	One thousand six hundred and fifty 6-foot grape stakes—Santa Cruz Lum. Co.	33 OÙ
. (8	Two thousand and seventy 4-foot grape stakes—Santa Cruz Lumber Co.	28 98
10	One thousand six hundred and fifty 6-foot grape stakes—Santa Cruz Lum. Co.	33 00
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9	Dela fed le le control de la c	8 50
3	books for laboratory—Hunt & Eaton	14 22
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Two hundred and fifty feet 16-foot redwood—Henry W Taylor	
Two hundred and fifty feet 16 feet redwood Henry W. Taylor	@10 A
I wo hundred and hity leet to loot red wood—Henry W. Taylor	\$18 Q
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	\$1,551 \$
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APPENDIX No. 3 W—Agricultural Experiment Stations—Tools, Implements, and Machinery.	-7
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Six feet red strip belt—Woodin & Little Six lace strings—Woodin & Little Six lag screws—Woodin & Little Two machine bolts—Woodin & Little Repairing cultivator—Cox & Williams Two elever and books Cox & Williams	\$1 å
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Six face strings—would be little	9
Six lag screws—woodin & Little	ą.
Two machine bolts—Woodin & Little	.21
Renairing cultivator—Cox & Williams	r di
Two alarmas and hooks Cow & Williams	0 3
I wo cievises and nooks—cox & williams	4 8
Four new shoes—Cox & Williams	$\bar{2}\bar{3}$
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Two 1-inch ells—Woodin & Little	24
Packing and cartage—Woodin & Little	51
One tightening pulley—Woodin & Little	27 Ö
One tightening purity would be interested to the control of the co	
Cartage—woodin & Little	
Horseshoes—Cox & Williams	50 2 00
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One spray pump and hose—Bean Spray Pump Co	30 8
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One Parker's pipe vise—Huntington-Hopkins Co. Six singletrees; six pair leathers—G. G. Wickson & Co.  APPENDIX No. 3 X—Agricultural Experiment Stations—Scientific Instruments.  Three arrow vanes and packing—Howe Scale Co. One spectroscope and charges—A. Kriiss, Hamburg—Customs charges on one case—George W. Reed One amperometer—Pacific Electric Storage Co.  APPENDIX No. 3 Y—Agricultural Experiment Stations—Traveling Expenses.  Two trips to Shaws—F. T. Bioletti. Two trips to Shaws—F. T. Bioletti. Traveling expenses of W. G. Klee: Berkeley to Santa Clara—Horse and buggy—Hotel bill and supper—San José to Berkeley	\$216 4 \$216 4 \$216 4 \$36 7 \$38 6 6 11 32 4 \$213 8 \$7 0 8 0 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8
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One Parker's pipe vise—Huntington-Hopkins Co. Six singletrees; six pair leathers—G. G. Wickson & Co.  APPENDIX No. 3 X—Agricultural Experiment Stations—Scientific Instruments.  Three arrow vanes and packing—Howe Scale Co. One spectroscope and charges—A. Kriiss, Hamburg—Customs charges on one case—George W. Reed One amperometer—Pacific Electric Storage Co.  APPENDIX No. 3 Y—Agricultural Experiment Stations—Traveling Expenses.  Two trips to Shaws—F. T. Bioletti. Two trips to Shaws—F. T. Bioletti. Traveling expenses of W. G. Klee: Berkeley to Santa Clara—Horse and buggy—Hotel bill and supper—San José to Berkeley	23 8 5 6 11 2 6 0 11 2 6 0 1 2 16 4 1 2 16 4 1 2 16 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1
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One Parker's pipe vise—Huntington-Hopkins Co.  Six singletrees; six pair leathers—G. G. Wickson & Co.  APPENDIX No. 3 X—Agricultural Experiment Stations—Scientific Instruments.  Three arrow vanes and packing—Howe Scale Co. One spectroscope and charges—A. Krüss, Hamburg—Customs charges on one case—George W. Reed One amperometer—Pacific Electric Storage Co.  APPENDIX No. 3 Y—Agricultural Experiment Stations—Traveling Expenses.  Two trips to Shaws—F. T. Bioletti Traveling expenses of W. G. Klee: Berkeley to Santa Clara—Horse and buggy—Hotel bill and supper—San José to Berkeley—Berkeley to Irvington and return—Stage from Mission to Irvington—Board and lodging at Irvington—Board and lodging at Irvington—Sleeper and breakfast—Hotel bill at Tulare—Sleeper and breakfast—Hotel bill at Tulare—Telegram to Fresno—Visalia, one meal—Porterville to Fresno—Voterville to Fresno—Porterville to Fresno—Voterville to Fresno—Porterville to Fresno—Porterv	\$216 4 \$216 4 \$216 4 \$36 T \$38 G 6 B \$213 3 \$213 3 \$7 0 8 G 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B
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Supper at Fresno. Fresno to Berkeley Supper and breakfast Expenses on package from San Diego. Gopher traps for Tulare Oil soap for Paso Robles Two trips to San Francisco Expenses of E. W. Hilgard during July. Expenses of E. W. Hilgard during August. Expenses of W. G. Klee during September. Expenses of W. G. Klee during October To Mountain View and return—M. E. Jaffa. Buggy hire—M. E. Jaffa. Expenses of L. B. Benton at Cupertino and Mission San José during vintage Stockton and return—E. J. Wickson. Los Guillocos and return—F. T. Bioletti Fresno and return—E. J. Wickson Expenses to city and return—November and December—L. W. Maslin. Expenses of W. G. Klee during December Expenses of F. T. Bioletti Los Guillocos and return—F. T. Bioletti Los Guillocos and return—F. T. Bioletti Los Guillocos and return—F. T. Bioletti Los Guillocos and return—Louis Paparelli Obtaining cuttings—L. E. Benton. Expenses of W. G. Klee during March	\$0 50
Fresno to Berkeley	6 00
Supper and breakfast	2 00
Expenses on package from San Diego	45
Gopher traps for Tulare	2 25
Ull soap for Paso Robles	1 00 50
Two trips to can Francisco	33 63
Expenses of E. W. Hilgard during Sury	11 60
Expenses of W. G. Klee during September.	11 10
Expenses of W. G. Klee during October	32 45
To Mountain View and return—M. E. Jaffa	2 00
Buggy hire—M. E. Jaffa	2 00
Expenses of L. E. Benton at Cupertino and Mission San José during vintage	54 85
Stockton and return—E. J. Wickson  Log Chilleges and return F. T. Dieletti	5 00
Los Guinocos and Feturn—F. 1. Dioletti	4 60 11 80
Buggy hire—E. J. Wickson	3 00
Expenses to city and return—November and December—L. W. Maslin	2 60
Expenses of W. G. Klee during December	28 75
Expenses of F. T. Bioletti	1 25
Los Guillocos and return—F. T. Bioletti	3 50
Los Guillocos and return—Louis Paparelli	3 50
Untaining cuttings—L. E. Benton	15 60
Expenses of W. G. Kiee during March	47 80
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APPENDIX No. 3 Z—Agricultural Experiment Stations—Water Supply.	
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One pulley, 26-inch diameter—Woodin & Little	<b>\$10</b> 50
Four feet iron—Cox & Williams	1 40
Wildrod — Cox & Williams	50
Pine and holts. Cox & Williams	9 00 5 50
Nuts and washers—Cov & Williams	3 80
Fixing rod—Cox & Williams	1 00
Two plates—Cox & Williams	1 00
One spindle—Cox & Williams	50
Four shoes—Cox & Williams	2 00
Two bolts—Cox & Williams.	80
Repairing cultivator—Cox & Williams	75
Panising books Cox & Williams	75 10
Thirty-five nounds eniber E. Ginocchio & Bro	1 45
Six lag screws—E. Ginocchio & Bro.	75
Butts and washers—E. Ginocchio & Bro.	1 15
Freight—E. Ginocchio & Bro.	50
Pipe and punch—Hewitt Bros.	2 15
Bolt and union—Hewitt Bros.	90
I wenty-six and one half feet pipe—Hewitt Bros.	2 12
Cutting nine Hewitt Bros	1 13 25
Labor during July on waterworks at Jackson	213 10
Labor during August on waterworks at Jackson	133 35
Castings, bolts, etc., for water gates—Donnelly & Howard	14 00
One thousand three hundred and forty-seven feet lumber—L. Newman & Co.	29 41
One hundred and thirty and one half feet 1½-inch pipe—A. T. Cotton	21 90
One pump—A. T. Cotton	4 00
Laring pine and pump A. T. Cotton	60
Six barrels Portland coment—Moore & Smith Lumber Co	8 50 25 50
	20 00
One pulley, 26-inch diameter—Woodin & Little Four feet iron—Cox & Williams Wildrod—Cox & Williams Seventy-five pounds iron—Cox & Williams Pipe and bolts—Cox & Williams Nuts and washers—Cox & Williams Nuts and washers—Cox & Williams Two plates—Cox & Williams One spindle—Cox & Williams Two plates—Cox & Williams Two bolts—Cox & Williams Two bolts—Cox & Williams Repairing cultivator—Cox & Williams Repairing cultivator—Cox & Williams Repairing collivator—Cox & Williams Repairing hooks—Cox & Williams Thirty-five pounds spikes—E. Ginocchio & Bro. Six lag screws—E. Ginocchio & Bro. Butts and washers—E. Ginocchio & Bro. Freight—E. Ginocchio & Bro. Pipe and punch—Hewitt Bros. Bolt and union—Hewitt Bros. Bolt and union—Hewitt Bros. Cutting pipe—Hewitt Bros. Labor during July on waterworks at Jackson	\$498 36
APPENDIX No. 4—College of Agriculture.	<del>+-00 00</del>
Labor for the month of July	eane so
Labor for the month of Angust	\$406 50 450 95
Expressage for the month of June—Patterson & Co	10 00
Labor for the month of August  Expressage for the month of June—Patterson & Co.  Expressage for July and August—Wells, Fargo & Co.  Expressage for September—Wells, Fargo & Co.	11 25
Expressage for September—Wells, Fargo & Co.	55 40
Labor for month of September	393 95
Labor for month of September Thirty-two loads manure—Joseph McKeown Preight on twenty-one boxes grapes—Southern Pacific Co.	16 00
Freight on twenty-one boxes grapes—Southern Pacific Co.	85
One Land Control of the Control of t	50

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# Baling fifty-three bales hay—John Myers Expressage for September and October—Wells, Fargo & Co. Three thousand two hundred cubic feet gas—Oakland Gas Co. Four thousand seven hundred cubic feet gas—Oakland Gas Co. Clerical services of J. D. Layman Expressage for July, August, and September—Patterson & Co. Six thousand nine hundred cubic feet gas—Oakland Gas Co. Repairing shears—Nelson & McLellan Repairing garden shears—Nelson & McLellan Hook for scales—Nelson & McLellan Eight new shoes—Nelson & McLellan Sharpening one chisel—Nelson & McLellan Labor for month of October Labor for month of October One reach—Nelson & McLellan Two new handles to saw—Nelson & McLellan Sharpening four picks—Nelson & McLellan Eight new shoes—Nelson & McLellan Sharpening two picks—Nelson & McLellan Sharpening two picks—Nelson & McLellan Sharpening one pick—Nelson & McLellan Sharpening two picks—Nelson & McLellan Sharpening two picks—Nelson & McLellan Expressage October and November—Wells, Fargo & Co. Expressage October—Patterson & Co. Labor for month of October. Expressage October and November—Wells, Fargo & Co. Expressage October—Patterson & Co. Four thousand eight hundred cubic feet gas—Oakland Gas Co. Two thousand one hundred feet gas—Oakland Gas Co. Labor for month of November Six thousand cubic feet gas—Oakland Gas Co. Eleven thousand three hundred cubic feet gas—Oakland Gas Co. Expressage during-December—Wells, Fargo & Co. Labor for the month of December Seed bags—Ames & Detrick Eleven thousand three hundred cubic feet gas—Oakland Gas Co. Expressage during-December—Wells, Fargo & Co. Labor for the month of December Seed bags—Ames & Detrick Twenty-five pounds carrot seed—Reddington & Co. Sharpening two shares—Nelson & McLellan Eight new shoes—Nelson & McLellan Sharpening one share—Nelson & McLellan Sharpening fwo shares—Nelson & McLellan Hooks for singletree—Nelson & McLellan Expressage during November—Patterson & Co. Expressage during November—Wells, Fargo & Co. Labor for mouth of January—Wells, Fargo & Co. Expressage during January—Wells, Fargo & Co. Expressage during January—Wells, Fargo & Co. Expressage during January—Patterson & Co. Fitteen thousand four hundred cubic feet gas—Oakland Gas Co. Sixteen thousand four hundred cubic feet gas—Oakland Gas Co. Sixteen thousand three hundred cubic feet gas—Oakland Gas Co. Expressage during February—Wells, Fargo & Co. Expressage during February—Wells, Fargo & Co. Expressage during February—Patterson & Co. Thirteen thousand three hundred cubic feet gas—Oakland Gas Co. Eight new shoes—Nelson & McLellan Repairing sprinkler—Nelson & McLellan One plow clevis—Nelson & McLellan Repairing sprinkler—Nelson & McLellan Sharpening fitty-six harrow teeth—Nelson & McLellan Sharpening for month of March Ten sacks oats—Paul Keyser Expressage during March—Patterson & Co. Telegrams—Western Union Telegraph Co. Expressage during March—Patterson & Co. Telegrams—Western Union Telegraph Co. Expressage during March—Patterson & Co. Telegrams—Western Union Telegraph Co. Expressage during March—Patterson & Co. Telegrams—Western Union Telegraph Co. Expressage during March—Patterson & Co. Telegrams—Western Union Telegraph Co. Expressage during March—Patterson & Co. Telegrams—Western Union Telegraph Co. Expressage during March—Patterson & Co. Telegrams—Western Union Telegr Sharpening two shares—Nelson & McLellan Sight new shoes—Nelson & McLellan Sharpening two shares—Nelson & McLellan

#### DISBURSEMENTS-Continued.

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Two bolts for cultivator—Nelson & McLellan	<b>\$0 25</b>
Four teeth for cultivator—Nelson & McLellan	2 50
Telegrams during March—Western Union Telegraph Co.	2 38
Expressage ten sacks oats—Patterson & Co.	2 00
Telegrams during March—Western Union Telegraph Co.  Expressage ten sacks oats—Patterson & Co.  Expressage five boxes trees—Patterson & Co.  Freight on five boxes trees—Southern Pacific Co.  Expressage one box maps—Patterson & Co.  Expressage one pair scales—Patterson & Co.  Expressage twelve chairs—Patterson & Co.  Expressage one box soda—Patterson & Co.  Expressage one box instruments—Patterson & Co.  Expressage one box instruments—Patterson & Co.  Thirty-five square feet felting—Justinian Caire One pneumatic trough—Justinian Caire Twenty-two pounds sulphuric acid—Justinian Caire Five pounds caustic potash—Justinian Caire Two pounds sodium oxide—Justinian Caire Ten pounds oxalic acid—Justinian Caire Ten pounds oxalic acid—Justinian Caire	1 75
Freight on five boxes trees—Southern Pacific Co.	12 15
Expressage one noir gooleg. Potterson & Co.	50
Expressage the pair scales—ratterson & Co.	75 2 00
Expressage one hoy soda—Patterson & Co	2 00 75
Expressage one box instruments—Patterson & Co.	1 00
Thirty-five square feet felting—Justinian Caire	4 00
One pneumatic trough—Justinian Caire	8 00
Twenty-two pounds sulphuric acid—Justinian Caire	7 20
Five pounds caustic potash—Justinian Caire	4 05
Two pounds sodium oxide—Justinian Caire	1 50
One ource obloride platinum—Justinian Caire	2 20
One quart hisulphide carbonInstinian Caire	6 60 60
Glass wool—Justinian Caire	1 00
One platinum crucible and cover—Justinian Caire	18 87
One hydrogen generator—Justinian Caire	9 00
Two aspirating bottles—Justinian Caire.	2 15
Two pounds sodium oxide—Justinian Caire Ten pounds oxalic acid—Justinian Caire One ounce chloride platinum—Justinian Caire One quart bisulphide carbon—Justinian Caire Glass wool—Justinian Caire One platinum crucible and cover—Justinian Caire One hydrogen generator—Justinian Caire Two aspirating bottles—Justinian Caire Two stands—Justinian Caire Zinc—Justinian Caire Assorted rubber tubing—Justinian Caire Four burner flanges—Justinian Caire Three pounds petroleum ether—Justinian Caire Three pounds chloroform—Justinian Caire Five bulb tubes—Justinian Caire Five pounds rock sugar—Justinian Caire Two potash tubes—Justinian Caire Two potash tubes—Justinian Caire Two potash tubes—Justinian Caire Two nests crucibles—Justinian Caire Two nests crucibles—Justinian Caire	2 50
Zine—Justinian Caire	60
Assorted rubber tubing—Justinian Caire	5 00
Three nounds petroleum ether - Instinion Coire	1 25 2 25
Three nounds chloroform—Justinian Caire	2 25
Five bilb tubes—Justinian Caire	2 25 3 00
Five pounds rock sugar—Justinian Caire	. 85
Two potash tubes—Justinian Caire	1 50
Two nests crucibles—Justinian Caire	75
Assorted corks—Justinian Caire	5 00
One dozen 1 wellon demisches Trustinian Clien	2 25
Two potash tubes—Justinian Caire Two nests crucibles—Justinian Caire Assorted corks—Justinian Caire Bungs for kegs—Justinian Caire One dozen 1-gallon demijohns—Justinian Caire One dozen 2-gallon demijohns—Justinian Caire One half dozen 3-gallon demijohns—Justinian Caire Two hose couplings—Justinian Caire Nails—Justinian Caire Expressage during May—Wells, Fargo & Co. Thirty-six county maps of California—E. M. Sleator One map, California—E. M. Sleator One map, Couthern California—E. M. Sleator Labor for month of May	3 60
One half dozen 3-gallon demijohns-Justinian Caire	5 40 3 60
Two hose couplings-Justinian Caire	50
Nails—Justinian Caire	1 00
Expressage during May—Wells, Fargo & Co.	14 00
Thirty-six county maps of California—E. M. Sleator	235 50
One map, California—E. M. Sleator	7 00
One map, Central California—E. M. Sleator	4 50
Under for month of More	4 00
One ton harley—Stewart & Trowbridge	454 00 26 00
Five hundred bounds bran—Stewart & Trowbridge	. 4 25
Blacksmithing during May—Nelson & McLellan	5 75
Expressage during May—Patterson & Co.	5 20
Plowing on mountain—John Stutt	35 00
Seven thousand seven hundred cubic feet gas—Oakland Gas Co.	19 25
Two thousand one hundred cubic feet gas—Oakland Gas Co.	4 75
beven thousand one hundred cubic feet gas—Uakland Gas Co.	17 75
Two carbove—San Francisco Gaslight Co	7 00 5 00
Expressage—Wells, Fargo & Co.	5 00 2 45
Moving and repairing building—A. H. Broad	225 00
	93 31
Glass and porcelain ware—bill of Franz Schilling, Gehlberg, Germany	
One map, Southern California—E. M. Sleator Labor for month of May One ton barley—Stewart & Trowbridge Five hundred pounds bran—Stewart & Trowbridge Blacksmithing during May—Nelson & McLellan Expressage during May—Patterson & Co. Plowing on mountain—John Stutt Seven thousand seven hundred cubic feet gas—Oakland Gas Co. Two thousand one hundred cubic feet gas—Oakland Gas Co. Seven thousand one hundred cubic feet gas—Oakland Gas Co. Three thousand one hundred cubic feet gas—Oakland Gas Co. Trwo carboys—San Francisco Gaslight Co. Expressage—Wells, Fargo & Co. Moving and repairing building—A. H. Broad. Glass and porcelain ware—bill of Franz Schilling, Gehlberg, Germany	
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APPENDIX No. 5—College of Chemistry.	\$6,954 22
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Eight hundred cubic feet gas—Oakland Gas Co Six hundred cubic feet gas—Oakland Gas Co Custom fees on seventeen cases—Geo. W. Reed Twenty pounds caustic soda—T. W. Jackson & Co Fifty pounds plumbago—Pacific Graphite Manufacturing Co Expressage on seventeen cases apparatus—Patterson & Co Expressage on one package—Patterson & Co Four thousand six hundred cubic feet gas—Oakland Gas Co Insurance—Canton Insurance Co.	
Six hundred cubic feet gas—Oakland Gas Co.	
Custom fees on seventeen cases—Geo. W. Reed	
Twenty nounds caustic soda W Incheson & Co	
Twenty points causic source. W. Jackson Co.	
Fifty pounds plumbago—Pacine Graphite Manufacturing Co	
Expressage on seventeen cases apparatus—Patterson & Co	
Expressage on one package—Patterson & Co.	
Four thousand six hundred onbic feet gas Oaldand Gas Co	
Four thousand six inducted cubic feet gas—Oakiand Gas Co.	
Insurance—Canton Insurance Co	
Custom fees on one case—Geo. W. Reed	
Four thousand six hundred cubic feet gas—Oakland Gas Co. Insurance—Canton Insurance Co. Custom fees on one case—Geo. W. Reed. Thirty pounds caustic soda—T. W. Jackson & Co. Freight on one case china from Hamburg—Wm. Wolff & Co. Expressage on two boxes glass—Patterson & Co. Expressage on one box graphite—Patterson & Co. Expressage on two cases soda—Patterson & Co. Expressage on two cases soda—Patterson & Co. Expressage on two boxes—Patterson & Co. Expressage on two boxes—Patterson & Co. Expressage on two boxes—Patterson & Co. Seven hundred cubic feet gas—Oakland Gas Co. One hundred gms. carbozal—Justinian Caire Twenty-one and one half feet wire cloth—Justinian Caire. Three pair tongs—Justinian Caire.	
Throught on one against the Transfer on Walter & Co	
reight on one case china from Hamburg—wm. Wolff & Co	
Expressage on two boxes glass—Patterson & Co	
Expressage on one box graphite—Patterson & Co.	
Typysagaga on two angag gods Pattergen & Co	
Expressage on two cases sour attension of Co.	
Expressage on one carboy acid—Patterson & Co.	
Expressage on two boxes—Patterson & Co.	
Fight thousand seven hundred cubic feet res Ockland Gos Co	
Green broaded seven introduction to the seven broaden was observed and the seven broaden and the seven broaden as	
seven nundred cubic feet gas—Oakland Gas Co	
One hundred gms. carbozal—Justinian Caire	
Twenty-one and one half feet wire cloth-Institution Cairo	
There was to me Treatment Claims	
Three pair tongs—Justinian Carre-	
Four pounds cyanide potash—Justinian Caire.	
Twenty-one and one half feet wire cloth—Justinian Caire  Three pair tongs—Justinian Caire  Four pounds cyanide potash—Justinian Caire  Ten pounds com. cyanide potash—Justinian Caire  Eight thousand five hundred cubic feet gas—Oakland Gas Co  Twelve thousand one hundred cubic feet gas—Oakland Gas Co  One carboy sulphuric acid—Golden City Chemical Works  Two carboys muriatic acid—San Francisco Chemical Works  Expressage on one box—Patterson & Co  Expressage on two carboys—Patterson & Co  Two 3-gallon retorts—Justinian Caire.  One 4-gallon retort—Justinian Caire.  Twenty pounds sub, sulphur—Justinian Caire  Five pounds lamp black—Justinian Caire	
Right thousand five hundred cubic feet gas Oakland Gas Co	
English the season are included cubic feet gas—Oakland Gas Co.	
Twelve thousand one hundred cubic feet gas—Oakland Gas Co	
One carboy sulphuric acid—Golden City Chemical Works	
Two carboys muriatic acid—San Francisco Chamical Works	
Two corresponding to the Determinant of the Corresponding to the Corresp	
Expressage on one box—Patterson & Co	
Expressage on two carboys—Patterson & Co.	
Two 3-gallon retorts—Justinian Caire	
One A gallon retort Tugtinian Coine	
One 4-ganon recore—Justinian Carre-	
Twenty pounds sub. sulphur—Justinian Caire	
Five pounds lamp black—Justinian Caire	
Five nounds sade acetate Instinian Caire	
The pounds but accorde y usuality Care	
Twenty pounds borax—Justiman Care	
Twenty pounds copper—Justinian Caire	
Expressage, one box glass—Patterson & Co.	
Expression two contains and Battamen & Co	
Expressage, two carboys acid—ratterson & Co.	
Expressage, one package—Patterson & Co	
Stationery—Payot, Upham & Co.	
Expressage sheet iron one case Patterson & Co	
Expressage, sheet from, one case—I accerson & Co.	l
Expressage, one box, one can—Patterson & Co.	1
Four thousand one hundred cubic feet gas—Oakland Gas Co.	1
Four thousand cubic feet gas Oakland Gas Co	Į
Titre mellong Chine mut oil Tuctinian Coine	ı
rive gamons China nut oii—Justiman Caire	l
Sheet iron—Justinian Caire	ı
Six ninch cocks—Justinian Caire	1
One chisel - Justinian Cairo	1
One chisel- Justinian Cane	1
One saw—Justiman Carre	
Sheet copper—Justinian Caire	ĺ
Fifteen pounds oxalic—Justinian Caire	ı
Five collens lineard oil Instinion Coins	ı
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Five gallons shellac—Justinian Caire	ļ
Five gallons shellac—Justinian Caire  Four assorted brushes—Justinian Caire	
Five gallons shellac—Justinian Caire Four assorted brushes—Justinian Caire Five gallons turnenting—Justinian Caire	
Five gallons shellac—Justinian Caire Four assorted brushes—Justinian Caire Five gallons turpentine—Justinian Caire	
Five gallons shellac—Justinian Caire Four assorted brushes—Justinian Caire Five gallons turpentine—Justinian Caire Candles—Justinian Caire	
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ents:	36.15
One barrel ferrum sulfuratum	M. 15 5
Iwo kr. acidum acetic	
Cen kr. acidum acetic pur.	
One kr. acidum butyric pur.	
fen kr. acidum carbolic hell.	5
)ne kr. acidum formicic	5
ne half kr. acidum valerianic	7
ne kr. arracessenz	4
One kr. æther butyric	2
One kr. æther formicic	
Fifty æther œnanthicus	ę
One half kr. runiessenz	1
One kr. bromum, chem. rein. Two kr. chloroform, pur	5 7
Five kr. glycerine, dopp.	7
ase	4
wo kr. acid. benzoic	9
wo kr. acid, benzoic	<b>4</b>
ive kr. acid, chromic	10
ne kr. acid, oxalic	6
wo kr. acid, oxalic, pur.	4
ne half kr. acid, phosphoric	4
me half kr. acid, phosphoric me half kr. acid, phtalicum	5
wo kr. alumin natric	2
ne half kr. alumin oxydat, hydr.	1
ne kr. calcium acetic	
ne kr. ferrid cyankalium	6
wo kr. ferro cyankalium ive kr. glycerine, dopp. dest. wo kr. kalium bicarbonic.	6 8
wo kr. kelium bioarbonio	2
wo kr. kelium carbonic	
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wo kr. kalium cyanatum, 60 per cent	7
ne case	4
ne case	2
ne kr. acidum arsenicos	{
ne kr. acidum carbolic	
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ne kr. acidum citricum	{
ne half kr. acidum gallic ne half kr. acidum molybdenic	
ne kr. acidum phosphoric	
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AG N., ANTHOUGH HALL DICKERNING	

	. 3.00
One kr. ammonium nitric	1.90
One kr. ammonium oxalic	2.50
One kr. ammonium sulphuros	$\begin{array}{c c} 6.00 \\ 1.00 \end{array}$
One kr. arsenicum metallic	1.50
One baryum oxydat One kr. baryum rhodanat One half kr. calcium carbonic	5.00
One half kr. calcium carbonic	1.50
One half kr. calcium chromic	2.75
I WO Kr. calcium oxydat	1.50
One half kr. calcium rhodanat	2.50
One half kr. calcium sulturos	1.00
One kr. chloralhydrat crist.	8.00
One half kr. cobalt carbonic	11.25
One half kr. cobalt chlorat	7.50
One half kr. cobalt nitric	5.00
One half kr. cobalt oxalic	9.00
One half kr. cuprum acetic. One half kr. cuprum ammon. chlorat.	$\begin{array}{c c} 1.50 \\ 2.00 \end{array}$
One half kr. cuprum chromic.	2.50
One half kr. cuprum oxydat	2.30
One half kr. cuprum oxydat One half kr. cuprum rhodanat	4.50
One kr. cuprum oxydulat	5.00
One kr. ferrid ammon. sulfur.	2.00
One half kr. ferrum acetic	7.50
Two kr. ferrum chlorat	3.00
One kr. ferrum chromic	3.50
One kr. ferrum oxydat	2.00
One kr. ferrum chromic One kr. ferrum oxydat One kr. ferrum sesqui chlorat One kr. hydrarg. amidat. bichlorat One kr. hydrarg. bichlorat One kr. hydrarg. chlorat One kr. hydrarg. chlorat One kr. hydrarg. oxydat One half kr. hydrarg. rhodanat. Two kr. hydrarg. sulfuric oxydat	1.00
One kr. hydrarg. amidat. bichlorat	7.60
One kr. hydrarg. bichlorat	6.20
One kr. hydrarg, chlorat	7.00
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Two kr hydrarg sulfuric oxydat	10.40
Case	4.00
100.0 alumin metallic	8.00
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Ten kr. calc. carbonic	8.00
Five kr ferro ammon sulfurie	
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Ten kr. infusorienerd	3.00 3.00
Ten kr. infusorienerd One kr. kalmin acetic	3.00 3.50
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Ten kr. infusorienerd One kr. kalmin acetic One kr. kalmin acetic dep. One half kr. kalmin æthylosulfuric	3.00 3.50 2.30 4.50
Ten kr. infusorienerd Oue kr. kalmin acetic One kr. kalmin acetic one kr. kalmin acetic one kr. kalmin acetic dep. One half kr. kalmin æthylosulfuric Two kr. kalmin bichromic	3.00 3.50 2.30 4.50 3.00
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One kr. kalmin bioxalic One kr. kalmin bioxalic One kr. kalmin actic dep. One kr. kalmin bichromic One kr. kalmin bichromic One kr. kalmin bichromic One kr. kalmin bioxalic One kr. kalmin bioxalic One kr. kalmin bioxalic	3.00 3.50 2.30 4.50 3.00 1.80 1.80
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One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00 8.00
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00 8.00 5.00
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00 8.00 5.00 2.60
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic Ten kr. ammon. carbonic, albis. Five kr. ammon. carbonic, pulv. Two kr. ammon. carbonic, puriss. Ten kr. ammon chlorat, puriss. Case and packing.	3.00 3.50 2.30 4.50 1.80 1.80 4.00 4.00 2.00 8.00 5.00 2.60 8.95
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic Ten kr. ammon. carbonic, albis. Five kr. ammon. carbonic, pulv. Two kr. ammon. carbonic, puriss. Ten kr. ammon chlorat, puriss. Case and packing.	3.00 3.50 2.30 4.50 3.00 1.80 1.80 4.00 4.00 2.00 8.00 79.95 715.35
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One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic Ten kr. ammon. carbonic, albis. Five kr. ammon. carbonic, pulv. Two kr. ammon. carbonic, puriss. Ten kr. ammon chlorat, puriss. Case and packing.  M.  Less 1½ per cent	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00 8.00 2.60 8.00 79.95 715.35 10.73
One case Ten kr. alumen. ammoniacale Five kr. alumen. chromic Ten kr. ammon. carbonic, albis. Five kr. ammon. carbonic, pulv. Two kr. ammon. carbonic, pulv. Ten kr. ammon chlorat, puriss. Ten kr. ammon chlorat, puriss.  Case and packing.  M.  Less 1½ per cent  M.	3.00 3.50 2.30 4.50 3.00 1.80 4.00 4.00 2.00 8.00 5.00 79.95 715.35 10.73
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#### DISBURSEMENTS—Continued.

Twenty gr. aethylcapronat	i. 2.00
Twenty gr. aethylchloracetat	.50
Fifty gr. aethylcyanid.	9.00
Fifty gr. aethyldichloracetat	4.50
Fifty gr. aethyldisulfid	00.8
Twenty-five gr. aethylenalcohol	10.00
Twenty-five er, aethylidenchlorid	2.50
Fifty gr. aethylisohutyrat	2.50
Fifty er, sethylpronionat	9.00
One hundred or nethylachyrotologyn howing	3.00
One hundred gr. activises welessur ballum	.70
One hundred or activischweielssur kallum	.00
Victor on achievable in the control of the control	.40
They gr. activities of the control o	3.00
wenty gr. alann	6.00
Twenty gr. allyl-acetat	3.00
rity gr. anyl-bromid	5.00
Fifty gr. allyl-iodide	5.00
Twenty gr. allyl-sulfid	6.00 {
Twenty gr. allyl-sulfocarbomid	2.40
Twenty gr. alphatoluylsäure	1.00
One hundred gr. ameisensäure cryst.	3.00
One hundred gr. ameisensaures ammon.	3.50
Fifty gr. amidobenzoesäure	7.50
Ten gr. amidoessigsäure	6.00
Ten gr. amidopropiousäure	3 00
One kg. ammonsulfocyanat	3 50
Rive or amylaminchlorbydrat	5.00
Pitty on anyl hystyrest	19
They gi, any i buylav-	3.00
One hundred are even withit	4.00
Tie Indiared gr. sinyl literit	1.00
Fifty gr. amyl schweleisaures barium	.50
Fity gr. amyl schweielsaures kallum	.40
Fifty gr. amyl schweielsaures natrium	.40
Twenty gr. amyl sulfhydrat	6.00
Twenty gr. amyl sulfid	4.80
Twenty gr. amyl sulfocyanat	4.00
Fifty gr. anisol.	5.00
Twenty gr. anissäure	6.00
Ten gr. arbutin	1.50
One hundred gr. asparagin.	6.00
Twenty gr. asparaginsäure	6.00
Ten gr. atropin, cryst.	6.00
Twenty gr. benzachlorid	1.10
Fifty gr. benzanilid	2.50
Fifty gr. benzoesäure anhydrid	5.00
One hundred or henzoesäure calcium	1.60
One hundred gr. henzoesäure natrium	.50
One hundred gr. benzoesäure kalium	90
Twenty or henzonitril	.80
One hundred or Remetain's ammon	1.80
Twenty gr. aethylchloracetat Fifty gr. aethylchloracetat Fifty gr. aethylchloracetat Fifty gr. aethyldichloracetat Fifty gr. aethyldisulfid Twenty-five gr. aethyldisulfid Twenty-five gr. aethyldienchlorid Fifty gr. aethylsisobutyrat One hundred gr. aethylsisobutyrat One hundred gr. aethylsisobutyrat Fifty gr. aethylsisobutyrat One hundred gr. aethylsisobutyrat Fifty gr. aethylsisobutyrat Fifty gr. aethylsisobutyrat Fifty gr. allyl-sociat Twenty gr. allyl-sociat Twenty gr. allyl-sociat Fifty gr. allyl-sociat Fifty gr. allyl-sociat Twenty gr. allyl-sociat One hundred gr. ameisensaure cryst One hundred gr. ameisensaures ammon Fifty gr. amidosesigsäure Ten gr. amidosesigsäure Ten gr. amidosesigsäure Ten gr. amidosesigsäure Ten gr. amidospopionsäure One kg. ammonsuifocyanat Fifty gr. amyl subtyrat Twenty gr. amyl cyanid One hundred gr. amyl nitrit Fifty gr. amyl sokwefelsaures barium Twenty gr. amyl sulfocyanat Fifty	1.20
Five hundred or herinmenthonet	4.00
Four ke harinmeerhonet II	2.00
One half be having hyperovydhyd	5.20
One half kg, bariumnyperoxyunyurat	3.25
One has beginned and	4.50
One kg. pariumsuing	3.70
One kg. pielcarbonat	3.50
One kg. pieichromat	3,50
One kg. pleihyperoxyd	3.50
One kg. cadmium	6.50
One hundred gr. cadmium chlorid	.90
One hundred gr. cadmium nitrat	.65
One hundred gr. cadmium sulfat	.90
One hundred gr. cadmium iodid	3.20
One gr. caesium chlorid	6.50
Two kg. calcium carbonat	1,20
Two kg. calcium chlorid, gran.	1.60
One kg. calcium chlorid, stg.	3.50
Ten kg. calcium chlorid, geschen.	4.00
Ten kg. calcium fluorid	3.00
Four kg. calcium oxyd	2.80
Two kg. calcium sulfid	6.00
One half kg. chrom bydrat	2.00
One hundred gr. benzoesäure natrium One hundred gr. benzoesäure kalium Twenty gr. benzonitril One hundred gr. Bernstein's ammon. Ten gr. brenzeatechin Five hundred gr. bariumcarbonat I Four kg. bariumcarbonat II. One half kg. bariumcyd One half kg. bariumcyd One kg. bariumsulfid One kg. bleicarbonat One kg. bleicarbonat One kg. bleichromat One kg. bleihyperoxyd One kg. cadmium One hundred gr. cadmium chlorid One hundred gr. cadmium nitrat One hundred gr. cadmium sulfat One hundred gr. cadmium iodid One gr. caesium chlorid Two kg. calcium carbonat Two kg. calcium chlorid, gran One kg. calcium chlorid, gran One kg. calcium fluorid, geschen Ten kg. calcium fluorid Two kg. calcium sulfid One hundred gr. cadmium sulfat	4.00

\$170 19

One half kg. chrom oxyd	М. 2.25
Two kg. chrom säure	24.00
One hundred gr. cobalt	14.00
One kg. cobalt carbonat	20.00
One hundred or, cobalt chlorid	4.00
One kg eisen sulfet	90
Ton less oison namelicaid	10.00
Ten kg, eisen perchionu	10.00
Ten kg, eisen suind	9.00
Three kg. fluorkieselwassersloffsäure	4.50
Nine tenths gr. indium chlorid	17.10
One kg. iod, resubl.	32.00
One kg, kalium arseniat	4.50
One ke kalium arsanit	4.50
Diverby to liver his whom he	8.50
Five kg, kalium bicarbonat	0.00
One gr. osmiums aure	8.80
Fifty gr. bromal	8.00
Twenty-five gr. bromalhydrat	4.50
Fifty gr. bromessigsäure	5.00
One hundred or, huttersäures calcium	5.00
One hundred or huttersianes netrium	5.00
Coronter on heart shipped	9.40
Twenty gr. butyichioral	2.40
riny butylenioral hydrat	2.25
Twenty gr. capronitril	4.00
One hundred gr. caprylacetat	12.00
One hundred gr. carbamid	3.00
One half kg. chrom oxyd Two kg. chrom säure One hundred gr. cobalt One kg. cobalt carbonat One hundred gr. cobalt chlorid One kg. eisen sulfat Ten kg. eisen perchlorid Ten kg. eisen perchlorid Ten kg. eisen sulfat Three kg. fluorkieselwassersloffsäure Nine tenths gr. indium chlorid One kg. iod, resubl. One kg. kalium arseniat One kg. kalium arseniat One kg. kalium arseniat Five kg. kalium bicarbonat One gr. osmiums äure Fifty gr. bromal Twenty-five gr. bromalhydrat Fifty gr. bromessigsäure One hundred gr. buttersäures calcium One hundred gr. buttersäures natrium Twenty gr. gr. bromessigsäure One hundred gr. carbamid Fifty gr. carbamid nitrat Fifty gr. carbamid nitrat Fifty gr. carbamid nitrat Fifty gr. carbozol Ten gr. certinolin Twenty gr. chinolin Twenty gr. chinolin	1.50
Fifty are applicable	2.50
They gi, carbozot	15.00
Ten gr. cerotinsaure	10.00
Fifty gr. citylalcohol	4.50
Ten gr. chinin	1.20
Twenty gr. chinolin	.70
Ten gr. chinin Twenty gr. chinolin Twenty gr. chlorcrotonsäure	8.00
Twenty or ablarbangal	.65
Tier on ablamibain	3.50
Fifty gr. chlorpikrin	3.50
Twenty gr. citraconsaure	3.20
Twenty gr. coniferin	4.80
Ten gr, contin	3.50
Twenty gr. cumarin	4.40
Twenty or cuminol	3.80
Twenty or ampinessing	7.60
Tieffer and Startballe and st	2.00
Fitty gr. diætnylacetat	3,00
Twenty gr. diæthylacetat amin	4.00
Twenty gr. diæthylacetat chlorhydrat	4.00
Fifty gr. dibromanthracen	5.00
Fifty gr. dichlorbenzol	4.00
Twenty-five or dimethylocetat	2.00
Twenty as dimethylesetet aminchloshydyst	8.00
Twenty gr. difficult authority drat	3.00
wenty gr. duicit	3.60
One nundred gr. essigsaure annydrid	2.00
Two hundred and fifty gr. acetamid	7.50
One hundred gr. aceton natrium bisulfit	1.50
Ten gr. æsculin	6.00
Twenty-five gr. æthyl cinnamat	2,50
Tan or otherlan ablarhydnin	6.00
Ten gr. ætnyten chromydrin	7.00
The desired of the state of the	7.00
Fifty gr. æthyl maionat	4.00
Fifty gr. æthyl salicylat	1.75
Twenty gr. chlorcrotonsäure Twenty gr. chlorcrotonsäure Twenty gr. chlorpenzol Fifty gr. chlorpikrin Twenty gr. citraconsäure Twenty gr. coniferin Ten gr. contin Twenty gr. cumarin Twenty gr. cuminol Twenty gr. diæthylacetat Twenty gr. diæthylacetat amin Twenty gr. diæthylacetat chlorhydrat Fifty gr. dibromanthracen Fifty gr. dichlorbenzol Twenty fr. dimethylacetat aminchlorhydrat Twenty gr. dimethylacetat Twenty gr. dulcit One hundred gr. essigsäure anhydrid Two hundred gr. aceton natrium bisulfit Ten gr. æsculin Twenty-five gr. æthyl cinnamat Ten gr. æthylen chlorhydrin Twenty gr. æthyl salicylat Ten gr. aliylamin Fifty gr. athylsmin Fifty gr. ameisensaures blei Fifty gr. ameisensaures blei Fifty gr. ameisensaures kalium Fifty gr. ameisensaures kalium	4.50
Ten gr. allylamin	3.50
Fifty or allyltribromid	5.00
Fifty or amaisangaires harium	.90
Fifty on amaignmenting blai	.80
riny gr. ameisensaures piei	.90
Fifty gr. ameisensaures calcium.	.90
Fifty gr. ameisensaures kalium	.50
Fifty gr. amylbenzoat.	1.50
Ten er henzophenon	3.00
One hundred or hernstimsäures notrium	1.00
Fifty on hornool	4.00
Title on anobatalable id	
ritty gr. gsooutyteniorid	6.00
One nunarea gr. cetyllodia	11.00
Twenty gr. chiminchlorhydrat	1.40
Fifty gr. chloraceton	3.00
Fifty gr. ameisensaures blei Fifty gr. ameisensaures calcium Fifty gr. ameisensaures kalium Fifty gr. amylbenzoat Ten gr. benzophenon One hundred gr. bernstimsäures natrium Fifty gr. sobutylchlorid One hundred gr. cetyliodid Twenty gr. chininchlorhydrat Fifty gr. chloraceton Twenty gr. chloraceton	1.20

Two kg, chloroform  Three kg, chloroform kfl.  Twenty gr, cuminalcohol One hundred gr, cumol (pseudocumol) One half kg, cyankalnim ans blansänne	[, 9.00
Three kg. chloroform kfl.	11.40
Twenty gr. cuminalcohol	8.00
One half kg. cyankaluim aus blausäure	9.00
	4.60
One kg. cyankaluim, 96-98 per cent	.80
Kifty or diocetonaminovalat	3.00
ruty gr. dimethylæthyl carbinol	4.00
Two hundred and fifty gr. diphenylamin cryst. One half kg. ammonium bicarbonat.	3.00 2.50
One half kg. ammonium bichromat	2.50
Une Kg. ammonium bromid	4.50
Five gr. ammonium carbonat Ten gr. ammonium carbonat kfl.	7.50
One keg ammonium nitrat	10.00   2.30
Half keg antimon	5.50
Half keg antimon. Three kegs antimon kfl.	4.20
One keg arsen Two kegs arsenigsäure	1.20
Two kegs arsenigsaure	2.00
Half keg arsensäure One keg arsensäure kfl.	1.50 1.90
One keg antimontrichlorid	6.00
Ten kegs kalium brichromat	17.00
Five kegs kalium hydrat stok.  Five kegs kalium hydrat stg.	20.00
Holf kee kelium nydrat stg.	22.50
Half keg kalium iodat One keg kalium nitrit	6.00
One keg kalium permanganat	2.30
One keg kalium bisulfat Half keg kupferoxyd, anal. One hundred grains lithiumchlorid	2.25
Half keg kupferoxyd, anal.	4.25
One keg magnesium carbonat	2.50 4.40
Five kees magnesium sulfat	1.50
Ten grains mangan One keg mangan dioxyd	9.00
One keg mangan dioxyd	7.50
Half keg molybdaensäure One keg natrium bisulfat	4.50 1.20
Five kegs natrium carbonat.	2.50
Five kegs natrium hydrat	30.00
One keg natrium nitrit Ten kegs natrium phosphat	5.00
Ten kegs natrium phosphat	8.50
One keg natronkalk Half keg natrium silicat Half keg nickelammonsulfat	2.50 3.00
Half keg nickelammonsulfat	1.00
One keg nickeicarbonat	0.00
One kee niekelnitust	5 (0) )
One has questrillerownd	1.25 8.20
Twenty grains magnesium	1.60
One keg quecksilberchlorid	6.50
One keg schræfel cryst	1.70
Fifty gr. selen	6.00
Half keg nickelsulfat One keg quecksilberoxyd Twenty grains magnesium One keg quecksilberchlorid One keg schræfel cryst Fifty gr. selen Five hundred gr. wismuthnitrat Five hundred gr. zink I	2.50
Two kegs zinnbichlorid	3.60
Two kegs zinnbichlorid Fifty gr. dibrombenzol Fifty gr. caprinsäure Fifty gr. carbothialdin One hundred kegs eisensulfid kfl.	3.00
Fifty gr. caprinsäure	18.50
Ora bundred kees eigensulfid kfl	3.00
Cases and packing	102.90
	1,210.90
10 per cent rebate on M.76.50	7.65
м.	1,203.25
Less 1½ per cent	18.05
	1.185.20 \$286 30
Bill of Warmbrunn and Quilitz & Co., Berlin, in marks; total in	1,185.20   \$286 30
dollars and cents:	
Ten abdampf schalen No. 17	M. 73.20
Three abdampf schalen, No. 15	16.20

Eight abdampf schalen, No. 15	[, 18.30
Forty abdampf schalen, No. 16	13.00
Twolve abdampf schalen, No. 17	20.00
One abdampf kersel No. 8	9.00
One abtront schalen, No. 32	4.20
One hundred and fifty abdampf schalen, No. 14	101.80
One hundred and forty-nine abdampf schalen, No. 14a	89.10
Thirty abdampf schalen, No. 10	30.00
Twenty-three abdampf schalen, No. 13	13.55
Two abdampf kapellen, No. 5	1.55
Two nundred and two abdampi schalen, No. 10	56.00
Twenty-seven abdampt schalen, No. 11	7.00
One destillir annerate	7.00
Two trockenschälchen	1.50
One quecksilberwanne	1,20
Two pulvercapseln	.65
Six casserolenFive filterhalter	5.75
Five filterhalter	2,50
One filtertrockengefässe	$\begin{array}{c} 1.75 \\ 3.25 \end{array}$
Fifteen glühschälchen Six glühschiffchen Two infundirbüchsen	2.00
Two infundirbiichsen	4.70
One infundirbüchsen mit handhaben	3.15
Seven kruken mit deckel	.75
	2.00
One lampen platten  Three lampen platten bunsen	2.25
Three löffel One quecksilber-büchsen Twenty-five reductionstiegel Ten schmelztiegel Ninety-five schmelztiegel, conische	1.15
One quecksilber-buchsen	1.20 31.25
Ton sahmolational	4.50
Ninety-five schmelztiegel conische	44.50
Twelve schmelztiegel, porzellan	6.00
Twelve schmelztiegel, porzellan Twenty-six schmelztiegel, Meissener porzellan Thirteen schmelztiegel, biscuit porzellan Three spatel	8.80
Thirteen schmelztiegel, biscuit porzellan	5.50
Three spatel	1.40
Two doppelspatel	1.35
One retorte mit tubus	$\frac{3.25}{1.50}$
One retorte mit tubus One retorte ohne tubus Two retorte, sanitäts porzellan	3.30
One retorte, sanitäts porzellan mit tubus	2.75
Three filtrirkörbe von porzellan	3.75
Three filtrirkörbe von porzellan Three filtrirkörbe mit lochern	3.20
Five trichter von porzellan	1.75
Four porzellanplatten Two porzellanplatten mit lochern	6.10
Two porzellanplatten mit lochern	3.60 4.20
Two porzellangefäss	.80
Four untersatzschalen verschieden Two untersatzschalen mit Stäben	.65
One wanne von porzellan	5.50
Two filtrirplatten	1.00
Five mensuren	8.65
One teller nech troube	1.25
Ninety glastrichter, glatt Twenty-eight glastrichter gestreifter Twenty-four glastrichter glatt mit schräg abgeschiff, Rohr Twenty glastrichter glatt mit schräg abgeschiff, Rohr und Rand Twenty-eight sätzen bechergläser ohne ausguss	23.75
Twenty-eight glastrichter gestreifter.	8.70 8.90
Twenty cleatrichter glatt mit schrag abgeschiff, Konf	12.20
Twenty-eight sätzen hechergiäser ohne ensemme	71.00
Four sätzen becherpläser mit anspuss	18.10
Four sätzen bechergläser mit ausguss Seven sätzen becherghäser englische form. One sätzen bechergläcer englische form mit ausguss.	22.15
One sätzen bechergläcer englische form, mit ausguss	5.25
Four sätzen bechergläser von braunem glase Two sätzen bechergläser von braunem glase mit ausguss Eight sätzen bechergläser cylindrische form.	3.75
Two sätzen bechergläser von braunem glase mit ausguss	5.85
Eight sätzen bechergläser cylindrische form.	63.00
Six sätzen crystallisations ohne ausguss	74.50
Two sätzen crystallisation mit ausguss	9,50 11.50
Twenty cylinder ohnestopfer Thirty-eight cylinder mit stopfer	51.10
Nine cylinder mit fuss and kropf	5.65
Nine cylinder	7.70
Nine cylinder Three quecksilber cylinder	3.00
One decantirgläser	2.00

One deplacirungs apparate Two gasentbidungsifaschen One beobachtungs glocken One glashähn Two mundstiicke von glas Five tropfgläser One pneumatische wanne von glas One glas cylinder Three glaskasten Two glaskasten Two glaskasten One brausepulvergläser One chloroformgläser One cobaltflasche One cobaltflasche One collodiumflasche	A.F E 75
One deplacifulgs apparate	M. 0.70
One beekfaktungs glocken	11.05
One deshähr	2 00
Two mundeticks was glas	5.00
Five transfelder	1 75
One pheumatische wanne von aleg	10.00
One glas cylinder	8 50
Three claskasten	0.00
Two glaskasten	8 75
One brausenulvergläser	.40
One chloroformeläser	1.50
Two chloroformeläser	.50
One cohaltflasche	.75
One collodiumflasche	.30
Nine dosen von glas	9.00
Three dosen you glas	1.65
Two kanne mit tubus	3.90
Two kanne mit tubus Three glasglocken	6.20
One schutzglocke Eleven filtrirkolben nach bunsen	1.50
Eleven filtrirkolben nach bunsen	8.50
Five filtrirkolben mit rohr	5.40
Two naffe you glas	1.50
Two trichter mit deckel	14.00
Two naffe von glas	3,25
One trichter nach allilin mit tuben	4.50
Two schutztrichter	4,50
Two schutztrichter Two scheidetrichter mit stopfen One scheidetrichter One exsiccator nach schesbler One exsiccator nach zeichnung	12.25
One scheidetrichter	5.50
One exsiccator nach schesbler	7.00
One exsicoator nach zeichnung	6.50
Two exsiceator	5.50
Two exsiccator Two exsiccator nach fresenuis.	6.50
Two exsiccator nach fresenuis	6.50
One exsiccator	5.00
One chlorcalcium cylinder	3.00
Thirty-one abdam of schalen ohne ausguss	11.95
Thirty-two abdampf schalen mit ansenss	14.80
One exstocator One chloroalcium cylinder Thirty-one abdampf schalen ohne ausguss Thirty-two abdampf schalen mit ausguss Three hundred and eighteen abdampf schalen uhrglasform Ten abdampf-schalen uhrglasform mit ausschnitt Two abdampf-schalen uhrglasform One löffel von glase Four reagir kelche mit ausguss Five reagir kelche ohne ausguss Five reagir kelche mit ausguss	92,25
Ten abdampf-schalen uhrglasform mit ausschnitt	8.42
Two abdampf-schalen uhrglasform.	.60
One löffel von glase	.50
Four reagir kelche mit ausguss	3.15
Five reagir kelche ohne ausguss.	2.14
Five reagir kelche mit ausguss	2.50
Five reagir kelche spitzglasform	2.50
Five strohkranz	1.60
One satz, dozen von glas	2.50
Five reagir keiche spitzglasiorm Five strohkranz One satz, dozen von glas Two mörser von glas Two emulsionsmörser Two mixtur mörser	3.25
Two emulsionsmörser	5.75
Two mixtur mörser	2.25
One pulver mörser	11.67
One pulver thon	2.75
Une retorte von thon	2.50
Six sätzen schmelztiegel	2.40
Two porzellan tonne	12.00
One pulver thon One retorte von thon Six sätzen schmelztiegel Two porzellan tonne Three abdampf-schalen von thon	9.25
One trichter von thon	3.90
One trienter you thou mit hann	6.00
One gasentwickelung apparate nach Finkener	20.00
Two gasentwickelung apparate nach Kipp	66.00
Merchan alamatical and a second a second and	8.25 77.20
Three abdampf-schalen von thon One trichter von thon One trichter von thon mit hahn One gasentwickelung apparate nach Finkener Two gasentwickelung apparate nach Kipp Eleven glascylinder Twelve glascylinder Eleven halbweisse retorten Three halbweisse randkolben	77.20 27.45
Meno halbering and halber	7.20
Three naipweisse rangkoiden	17.70
Twenty weisse rundekolben	17.70
Twenty-six rundekolpen mit umgelegt, Kaude	14.50
Twenty-two rundekoiden schwerschmeizbar	6.70
One vortagekolben	1.50
Une kulpen mit aufgeschliffenem neime	2.10
Florer retextor resign mit tubus	$\frac{4.40}{47.20}$
Three halbweisse randkolben Twenty weisse rundekolben Twenty-six rundekolben mit umgelegt, Raude Twenty-two rundekolben schwerschnielzbar One vorlagekolben One kolben mit aiifgeschliffenem helme Three retorten weiss mit tubus Eleven retorten weiss mit tubus Five weissen rundkolben	8.60
Five weissen rundkolben	0.00

Sixty weissen kolben M One hundred and three weissen kolben mit angelegten rande Eleven siede kolben nach martins. Seventeen cylinder mit fuss, rand und stopfen	. 17.75
One hundred and three weissen kolben mit angelegten rande	35.45
Eleven siede kolben nach martins	6.90
Seventeen cylinder mit fuss, rand und stopfen Five bücher aluminiumfolie One quarter kg. asbest. langfaserig One quarter kg. asbestpappe One half kg. asbestpappr Ten bogen etiquetten auf papier Ten bogen etiquetten in Päckchen Seven hundred bogen filtrirpapier, Deutches Three hundred bogen filtrirpapier, C. S. & S. One thousand two hundred stücke filtrirpapier, chemisch rein One thousand three hundred stücke filtrirpapier, nicht ausgewaschen	64.05
Five bucher aluminiumfolie	4.00
One quarter kg, aspest, langiaserig.	1.50
One half her aghestners	.90
Tan hagen stiquetten suf nanier	$\begin{array}{c} 6.00 \\ 1.50 \end{array}$
Ten hogen etiquetten in Päckchen	3.30
Seven hundred hogen filtrirpanier Deutches	27.95
Three hundred bogen filtrirpapier C. S. & S.	34.00
One thousand two hundred stiicke filtrirnapier, chemisch rein	30.80
One thousand three hundred sticke filtripapier, nicht ausge-	00.00
waschen One thousand stücke filtrirpapier, nicht ausgewaschen One hundred bogen kaffeelfiltrirpapier One giftbuch One keg kautschuk Five stücke kautschuk kappen.	173.35
One thousand stücke filtrirpapier, nicht ausgewaschen	61.65
One hundred bogen kaffeelfiltrirpapier	2.30
One giftbuch	6.00
One keg kautschuk	30.00
Five stücke kautschuk kappen	2.70
One wandtafel Fifteen wandtafel von schroeder	2.25
Fifteen wandtafel von schroeder	30.00
Two verbundungs hahn	2.25
One subsultan von nartgunns	1.75
Two verbundungs hahn One subeutan von hartgunns One subeutan vergoldet One subeutan versilbert	3.00
One prometorhesteelt	3.50
One urometerbesteck. One wasserbad von kupfer	7.50 11.50
Two retorten you kunfer	28 50
One schmelatiegel von kunfer	2.75
One schmelztiegel von nickel	2.25
Two abdampfschale von nickel	3.55
Two schmelztiegelzangen von messing	5.50
Three schmelztiegelzangen von messing	6.00
One schmelztiegelzangen von neusslber	2.25
One schmelztiegelzangen von neussiber und platinfinger	17.50
One wasserbad von kupfer Two retorten von kupfer One schmelztiegel von kupfer One schmelztiegel von nickel Two abdampfschale von nickel Two schmelztiegelzangen von messing Three schmelztiegelzangen von messing One schmelztiegelzangen von neussiber One schmelztiegelzangen von neussiber One schmelztiegelzangen von neussiber und platinfinger Two schmeztiegelzangen von nickel Half keg stanniol Ten quetschhähne nach mohr ohne schraube Two quetschhähne nach mohr mit schraube Four quetschhähne nach Hofmann Two quetschhähne nach Hofmann Two quetschhähne nach Bunsen Two dreifuss von messing	8.50
Half keg stanniol	2.25
Ten quetschhähne nach mohr ohne schraube	2.65
Two quetschhahne nach mohr mit schraube	.85
Two quetschhähne nach Hofmann	1.10
Two quetschbähne nach Runsen	1.70
Two dreifuss von messing	1.70 2.90
One pincette von stahl	3.50
One pincette von stahl One pincette von messing One pincette von nickel One satz korkbohrer von messing One satz korkbohrer verzinnt One satz korkbohrer verzinnt One satz korkbohrer von weissblech One lothrohr von messing One lothrohrspitze von platin One reagirglashalter von messing Two reagirglashalter von polirtem holz One kohlensäge Five loeffel von eisen Five loeffel von eisen	2.00
One pincette von nickel	.80
One satz korkbohrer von messing	6.00
One satz korkbohrer verzinnt	3.50
One satz korkbohrer von weissblech	2.50
One lothrohr von messing	6.00
One lothrohrspitze von platin	2.50
One reagirglashalter von messing	.75
Two reagirglashalter von polirtem holz	1.00
Une Koniensage	1.25
Five located you eisen	2.00
Five loeffel von eisen	3.50
One leaffel wer kneehen	1.15
Four abdomnfachelen von eigen	.40
Three loeffel von horn One loeffel von knochen Four abdampfschalen von eisen Three abdampfschalen von glasusen	8.35 10.65
Ten zinkplatten	7.50
One gasbrenner nach bunsen	1.50
Five gasbrenner nach bunsen	9.25
The zinkplatten  One gasbrenner nach bunsen  Five gasbrenner nach bunsen  One gasbrenner nach bunsen  One gasbrenner nach bunsen  One gasbrenner nach bunsen	2.75
One gasbreuner nach bunsen	5.00
One gasbrenner nach bunsen	3.35
One gasbrenner nach bunsen	3.50
One gasprenner nach finkner	4.10
One gasbrenner nach bunsen One gasbrenner nach finkner One gaskochapparat One gaskochapparat Five gasbrenner D Two gasbrenner E	9.00
Five gashronner D	2.75
Two gashrenner R	5.50

Two gasbrenner G One gasbrenner J Three messingstativ auf Dreifuss	М. 3.0
One gasbrenner J	1.1
Three messing stativ auf Dreifuss	10.7
One Kunierstativ	6.0
One kühlerstativ One pillenmörser von eisen One diamantmörser von stahl One retortenhalter mit doppelmuffe Two röhrenträger von messing Fifteen sandbadschalen von eisen	6.7
One retented to my the department of the control of	9.5
Two refortentiatter mit doppermune	4.0
Tiffeen candbadcabalan wan siese	8.5
Two ashmolations!	13.0
Two schmelztiegel Two stativ auf Dreifuss One stativ auf eiserner platte Two bunsen stativ von eisen	2.9 4.1
One stativ auf diserner platte	4.0
Two hungan stativ von eigen	3.2
Ten stativ nach bunsen kleine Five stativ nach bunsen mittlere	10.0
Five stativ nach bunsen mittlere	5.0
Five stativ nach bunsen grosse	5.0
Two klemmer, kleine	3.8
Tive stativ nach bunsen grosse Two klemmer, kleine Two klemmer, mittlere One klemmer, grosse Two bürettenhalter Five doppelmuffen Two doppelmuffen Two doppelmuffen, universal One haken Fifteen universalstativ von messing Ten universalstativ muffen	4.5
One klemmer, grosse	3.0
Two bürettenhalter	5.0
Five doppelmuffen	5.0
Two doppelmuffen, universal	4.5
One haken	1.8
Fifteen universalstativ von messing	35.0
Fourteen universalstativ von messing	
Chree universalstativ staebe	4.5
welve universalstativ mutten	12.0
ne satz eiserner ringe ne bürettestative ne bürettestative nach allihn	1.5
ne burettestative	9.0
ne burettestative nach allinn	7.7
one nitrirstativ von messing.	4.0
ne gasorenner mit ieuchtnamme	1.5
bwo extractspatel	
one filtrirstativ von messing De gasbrenner mit leuchtflamme Swo extractspatel De plasterspatel De filtrirstativ auf Dreifuss	1.6
Inc filtringtative and Drelluss	8.6
ne filtrirstativ, grösser ne filtrirstativ für microchemische arbeiten	3.0
One satz alkoholometer	18.0
Iwo universal araeometer	7.6
One thermometer	5.0
)ne spektroskop	50.0
wo reagirglashürsten aus horsten	J
Wo reagirglasbürsten aus hoar	8
ne druckflasche nach allihn	5.0
ne gasentvickelungs apparate	25.0
Fifty glaswolle	6.2
ne kg. glasperlen	4.
ifty kohlen zum löthrohrversuchen	3.0
orty kohlen zum öthrlohrversuckenkuntstliche	3.9
wenty sprengkohlen	1.9
en sprengkohlen starke	8
wo spitznaschen	5.2
me opodeldoktrichter	4.5
four rohren mit kohlensäure	60.0
one rohren mit kohlensäure schweftegir	7.5
ne luttpumpenteller auf eisernem füss	37.5 255.0
me comronroesteck nach plattner	200.0
wo filtrireanusee van nlatin	4.5
mo mumoumasse von praum	3.0
me magafiascharan	2.7
The aracometer Two universal aracometer The spektroskop Two reagirglasbürsten aus borsten Two reagirglasbürsten aus borsten Two reagirglasbürsten aus hoar The druckflasche nach allihn The gasentvickelungs apparate Fifty glaswolle The kg. glasperlen Fifty kohlen zum löthrohrversuchen Forty kohlen zum löthrohrversuchen Forty kohlen zum öthrlohrversuckenkuntstliche Twenty sprengkohlen Ten sprengkohlen The sprengko	2.7 95.0
One doppelflaschen	20.0
One dose von glas	2.3
One uroskop nach ziilzer	2.0
	6.3
Seven paar ühreläser	
Seven paar uhrgläser Fen allorigen	4.9
Die apparat zur stickstoffsbestimmung Die doppelflaschen Die dose von glas Die uroskop nach zülzer Seven paar uhrgläser Ten allorigen Two Clark's destillationsröhren Ten scheiben cobaltglas	4.9 1.2 3.0

One deplacirungs apparat	м. 1.25
Twenty kolben zur fraction destillation	9.00
One deplacirungs apparat	5.55
One extractions apparat.	1.00
One extractionsapparat nach Wagner	3.80
One piknometer	1.75
One piknometer nach Sprengel	1.25
Three gasleitungsröhren	2.10
One gasregulator	2.50
One gaswaschflasche nach allihn	6.00
One kaliapparat	2.50
Forty stehkholben	6.10
Ten kolben zur fraction destillation mit two röhren One extractions apparat One extractions apparat nach Wagner One piknometer One piknometer nach Sprengel Three gasleitungsröhren One gasregulator One gaswaschflasche nach allihn One kaliapparat Forty stehkholben One kolben mit aufgeschliffem helme One killer von glas	.70
One kühler von glas One rückflusskühler One schlangenkühler	1.75
One rückflusskühler	5.00
One schlangenkühler	10.50
One normalbürette One messpipette	7.50
One messpipette	1.00
One glaspinsel Six sätzen reagercylinder Thirty stücke reagercylinder Ten einblaserohre	
Six sätzen reagercylinder	.75 2.70
Thirty stücke reagercylinder	4.50
Ten einblaserohre	3.00
One satz trichter	.30
Two tropfgläser ohne stopfen	.60
One satz trichter Two tropfgläser ohne stopfen One tropfgläser mit stopfen	.50
One wiinfel von grangles	2.25
Two aetherschälchen	1.00
One goswaschflasche, mikrochemische.	1.50
Two aetherschälchen One goswaschflasche, mikrochemische Two wagsflaschen niedrige form Two wagsflaschen hohe form One wagsflaschen mit zwei kappen One richtlasse hibler	2.00
Two wagsflaschen hohe form	1.25
One wagsflaschen mit zwei kappen	.80
One rückflasskühler	3.00
One rückflasskühler Ten kolbehen mit langem halse	3.00
Five destillirkolben	3.00
Five destillirkolben Two tropfgläser von gelben glase Two tropfgläser nach limousin	1.50
Two tropfgläser nach limousin	4.00
Two tropfgläser nach salleron	.60
Six kegs glasröhren leichtschmelzbar	9.00
Three and twenty-five one hundredths kgs. glasröhren schwersch-	
melzbar	6.50
Three and sixty-nine hundreths kgs. glasröhren: cohnische	11.05
One keg glastäbe	2.50
Two tropfgläser nach salleron Six kegs glasröhren leichtschmelzbar Three and twenty-five one hundredths kgs. glasröhren schwerschmelzbar Three and sixty-nine hundreths kgs. glasröhren; cohnische One keg glastäbe Two and one tenth kegs glastäbe stark	4.20
M. 3.	732.15
Discount 5 per cent on M. 3,424.75	171.25
_	
$\mathbf{M}_{\bullet}$ 3.	,560.90
Twenty-five cases Three zinkeinsätze.	170.00
Three zinkeinsätze.	23.00
M. 3.	753.90
Less $1\frac{1}{2}$ per cent	56.30
,	
М. 3.	697.60
=	
Freight to Hamburg on thirty-five cases—J. R. McDonald & CoM	. 71.65
Receiving, cartage, and shipping—J. R. McDonald & Co.	76.25
Consul's certificate-J. R. McDonald & Co.	10.70
Freight to Hamburg on thirty-five cases—J. R. McDonald & Co	287.30
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М.	445.90
One quarter ounce metallic potassium—Justinian Caire Twelve pounds muriatic acid—Justinian Caire Thirty 15-inch bolts—Justinian Caire Thirty washers—Justinian Caire	
Twelve pounds muriatic acid—Justinian Caire	
Thirty 15-inch bolts—Justinian Caire	
Thirty washers—Justinian Caire	
Fifty pounds sal ammoniac—Justinian Caire	
Two dozen 3-inch watch glasses—Justinian Caire	
Two filter stands—Justinian Caire.	
One carboy muriatic acid—Golden City Chemical Works	
Thirty 15-inch bolts—Justinian Caire. Thirty washers—Justinian Caire. Fifty pounds sal ammoniac—Justinian Caire. Two dozen 3-inch watch glasses—Justinian Caire. Two filter stands—Justinian Caire. One carboy muriatic acid—Golden City Chemical Works. Expressage on one box—Patterson & Co. Book on Laboratories—Mayer & Müller.	
Book on Laboratories-Mayer & Müller	

One copybook-H. S. Crocker & Co.	<b>\$1</b> 25
One copybook—H. S. Crocker & Co. One carboy muriatic acid—Golden City Chemical Works Glass and porcelain ware—bill of Franz Schilling, Gehlberg, Germany	5 32
Glass and porcelain ware—bill of Franz Schilling, Gehlberg, Germany	260 65 3 70
Six thousand three hundred cubic feet gas—Oakland Gas Co.	15 75
Nine thousand one hundred cubic feet gas—Oakland Gas Co.	22 75
Expressage—Patterson & Co. Six thousand three hundred cubic feet gas—Oakland Gas Co. Nine thousand one hundred cubic feet gas—Oakland Gas Co. Three bottles muriatic acid—Golden City Chemical Works. Twelve porcelain crucibles—Justinian Caire	4 06 2 16
Three kettles—Justinian Caire	4 00
One thermometer—Justinian Caire Forty-seven pounds hydrofluoric acid—Justinian Caire.	1 50
Forty-seven pounds hydrofluoric acid—Justinian Caire	$\begin{array}{c} 11 & 75 \\ 2 & 50 \end{array}$
One gallon hydrogen peroxide—Justinian Caire. One pound hydrogen c. p.—Justinian Caire. Freight on same—Justinian Caire One lead jug—Justinian Caire Bottles and punch	60
Freight on same—Justinian Caire	7 70
One lead jug—Justinian Caire	6 50
Bottles and punch	3 00
Appendix No. 6—College of Civil Engineering.	\$2,936 21
Three pounds manilla rope—Congdon & Co.  Expressage on one package—Wells, Fargo & Co.  Iron gearing for Observatory—Oakland Iron Works.  Two cases coal oil—Joseph McClain  Two lanterns to order—A. S. Graff & Co.  Three wicks to order—A. S. Graff & Co.  Two hundred cards for thermometer—E. L. Woods  Repairs on sextant—A. Lietz & Co.  Two trins to San Francisco—Carl Rabe	<b>\$0 54</b>
Expressage on one package—Wells, Fargo & Co.	55
Iron gearing for Observatory—Oakland Iron Works	35 00
Two lanterns to order—A S Graff & Co	6 40 18 00
Three wicks to order—A. S. Graff & Co.	1 00
Two hundred cards for thermometer—E. L. Woods	3 40
Repairs on sextant—A. Lietz & Co.	1 00 50
Rain gauge—San Francisco Bulletin Co.	3 00
Three French glass plates—F. M. Farwell	21 00 12 00
Expressage and cartage—F. M. Farwell	1 50
Repairing sextant—A. Lietz & Co.	3 25
Two trips to San Francisco—Carl Rabe Rain gauge—San Francisco Bulletin Co. Three French glass plates—F. M. Farwell One French plate glass—F. M. Farwell Expressage and cartage—F. M. Farwell Repairing sextant—A. Lietz & Co. Drawing—H. G. Parker Wood work for gearing to turn dome of Observatory—Niehaus Bros. & Co. Expressage—Wells, Fargo & Co. Six brass shoes—Justinian Caire One memeograph—Samuel Hill & Co. Sheet iron work on Observatory—B. E. Underwood Two corner irons—Nelson & McLellan Cutting and drilling casting—Nelson & McLellan Cutting and drilling casting—Nelson & Co. Expressage on two boxes—Patterson & Co. Expressage on two boxes—Patterson & Co. Expenses to Oakland and return—Carl Rabe Two candlesticks—Dalziel & Moller	2 60 7 50
Expressage—Wells. Fargo & Co.	85
Six brass shoes—Justinian Caire	3 60
One memeograph—Samuel Hill & Co.	22 50 45 00
Two corner irons—Nelson & McLellan	45 00 75
Cutting and drilling casting—Nelson & McLellan	2 00
Expressage on two boxes—Patterson & Co.	60
Two condications—Delviel & Moller	20 60
Repairing lantern—Dalziel & Moller	50
	1 20
Une long handle ax—A. Erlandsen	85 1 20
Two tapes repaired—A. Erlandsen	50
One burner and wick—A. S. Graff & Co.	75
Looking glass—S. & G. Gump.	$\begin{array}{c} 50 \\ 2 \ 25 \end{array}$
One tin chloride of lime—Lebenbaum Bros.	2 45
One set alphabet letters—Walter C. Allen	20 00
Expressage on one package—Patterson & Co.	25 7 00
One spirit level and repairs—A. Lietz & Co.	17 50
Two thousand 1-cent stamps—N. B. Byrne	20 00
Repairing governor for clock—Josephus Speak	11 50 10 00
Six blank books—Dutton & Partridge	6 00
One roll catgut—Justinian Caire	1 00
Telegrams—Western Union Telegraph Co.	2 30
Two hrushes—Hawley Bros. Hardware Co.	2 50 70
Three dozen goose feathers—Hawley Bros. Hardware Co	30
One brass handle—Hawley Bros. Hardware Co.	20
One long handle ax—A. Erlandsen Two hatchets—A. Erlandsen Two tapes repaired—A. Erlandsen One burner and wick—A. S. Graff & Co. Looking glass—S. & G. Gump Drawing—Walter C. Allen One tin chloride of lime—Lebenbaum Bros. One set alphabet letters—Walter C. Allen Expressage on one package—Patterson & Co. Two boxes candles—Joseph McClain One spirit level and repairs—A. Lietz & Co. Two thousand 1-cent stamps—N. B. Byrne Repairing governor for clock—Josephus Speak. Expert work on astronomical clock—Lewis McKisick Six blank books—Dutton & Partridge One roll catgut—Justinian Caire Telegrams—Western Union Telegraph Co. Repairing level—A. Lietz & Co. Two brushes—Hawley Bros. Hardware Co. One brass handle—Hawley Bros. Hardware Co. Four dozen brass screws—Hawley Bros. Hardware Co. Four dozen brass screws—Hawley Bros. Hardware Co.	60
·	\$303 99
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# APPENDIX No. 7 A-College of Mechanics. Expressage on one box—Patterson & Co. Expressage on three packages—Patterson & Co. Expressage on three packages—Patterson & Co. Four thousand two hundred cubic feet of gas—Oakland Gas Co. Expressage on one package—Patterson & Co. Four thousand three hundred cubic feet of gas—Oakland Gas Co. Two dozen chilled iron saws—Justinian Caire. One large knife for extension bit—Justinian Caire. One small knife for extension bit—Justinian Caire. One serve wrench & inch block—Instinian Caire. One screw wrench, 8-inch block-Justinian Caire..... One machinist's hammer—Justinian Caire One riveting hammer, 44—Justinian Caire One riveting hammer, 43—Justinian Caire One 8-inch smooth plane—Justinian Caire One dozen Murphy gravers—Justinian Caire. Three packages Escuto pins—Justinian Caire. Three pounds copper rivets and burrs—Justinian Caire One 7-inch side cutting stubb pliers—Justinian Caire One 3-inch soldering iron—Justinian Caire Sixteen pounds solder—Justinian Caire Screw eyes and hooks—Justinian Caire One set tightening screw plates—Justinian Caire Two match boxes—Justinian Caire One hundred 2-cent stamps—N. B. Byrne Ten 5-cent stamps—N. B. Byrne Two hundred and twenty 1-cent stamps—N. B. Byrne One hundred 1-cent wrappers—N. B. Byrne One hundred 2-cent envelopes—N. B. Byrne One hundred 2-cent envelopes—N. B. Byrne Three thousand seven hundred cubic feet gas—Oakland Gas Co. Six thousand four hundred cubic feet gas—Oakland Gas Co. Two 1-inch hook hangers—Clot & Meese Two 1-inch collars—Clot & Meese One thousand cards cut to order—J. J. Evans Seven paper pads—J. J. Evans Sixteen pounds solder—Justinian Caire One thousand cards cut to order—J. J. Evans Seven paper pads—J. J. Evans Three dozen pencils—J. J. Evans Forty-seven and one half pounds brass castings—F. Baud Emery cloth and paper—Dunham, Carrigan & Hayden Co. Three fourths doz. flat smooth files—Dunham, Carrigan & Hayden Co. 15 93 One half dozen smooth files—Dunham, Carrigan & Hayden Co. 16 One half dozen bast. files—Dunham, Carrigan & Hayden Co. 17 Two dozen taper saw files—Dunham, Carrigan & Hayden Co. 18 One dozen taper saw files—Dunham, Carrigan & Hayden Co. 19 One fourth dozen slim tapers—Dunham, Carrigan & Hayden Co. 19 One fourth dozen slim tapers—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham, Carrigan & Hayden Co. 30 One dozen rd. second cut—Dunham Carrigan & Hayden Co. One dozen rd., second cut-Dunham, Carrigan & Hayden Co..... Less 40 per cent \_\_\_\_\_\_ 13 48 One fourth doz. Stubb's square files—Dunham, Carrigan & Hayden Co. \$0 49 One half doz. Stubb's six-inch files—Dunham, Carrigan & Hayden Co. 1 87 One half dozen Stubb's flat files—Dunham, Carrigan & Hayden Co. 1 88 Less 10 per cent One dozen mill files—Dunham, Carrigan & Hayden Co... Three thousand eight hundred cubic feet gas—Oakland Gas Co... Expressage on one bale waste—Patterson & Co... Expressage on two cases oil—Patterson & Co... Expressage on two bars steel—Patterson & Co... Expressage on two bars steel—Patterson & Co... Expressage on the back castings—Patterson & Co... Expressage on three sacks castings—Patterson & Co... Expressage on three sacks castings—Patterson & Co... Expressage on three sacks castings—Patterson & Co. Seven thousand four hundred cubic feet gas—Oakland Gas Co. Five thousand two hundred feet gas—Oakland Gas Co.

\$213

	APPENDIX No. 7 B—College of Mechanics—State Appropriation.	
\$0 2	One Hammond typewriter—Jones & Givens	\$100 00
11 8	One extra type wheel—Jones & Givens One extra pair spools and ribbon—Jones & Givens One ream legal paper—Jones & Givens One ream letter paper—Jones & Givens One ream letter paper—Jones & Givens	\$100 00 5 00 2 00 1 00 8 45 1 05
2	One extra pair spools and ribbon—Jones & Givens	1 00
11 8 2 0	One ream letter paper—Jones & Givens	3 45
- 31 8i	Two dozen carbon sheets—Jones & Givens Ten pounds No. 16 brass wire—Justinian Caire \$2.25	1 05
4	Ten pounds No. 14 brass wire—Justinian Caire 2 25	
: 6	Fifteen pounds No. 12 brass wire—Justinian Caire	
3	Fifteen pounds No. 8 brass wire—Justinian Caire	
ž	Twenty-five pounds cotton waste—Justinian Caire 3 25	
	One bar tool steel—Justinian Caire	
3 7	One plow plane—Justinian Caire	
1	One ream letter paper—Jones & Givens.         Two dozen carbon sheets—Jones & Givens.           Two dozen carbon sheets—Jones & Givens.         \$2 25           Ten pounds No. 16 brass wire—Justinian Caire         2 25           Fifteen pounds No. 12 brass wire—Justinian Caire         3 38           Fifteen pounds No. 10 brass wire—Justinian Caire         3 38           Fifteen pounds No. 8 brass wire—Justinian Caire         3 38           Twenty-five pounds cotton waste—Justinian Caire         3 25           Soapstone packing—Justinian Caire         2 50           One bar tool steel—Justinian Caire         2 50           One plow plane—Justinian Caire         7 25           One washer cutter—Justinian Caire         1 25	
1 (c)	\$31 39	
12	Less	30 12
3 2 1 2	Forty-four pounds rubber packing—Gutta Percha and Rubber Manufactur-	٠ _
8 2	ing Co. Five gallons Valvolite cylinder oil—American Oil Co.	10 12 5 50
2 0	Five gallons Valvolite cylinder oil—American Oil Co. Five gallons Champion cylinder oil—American Oil Co.	3 75
2 5	Five gallons Spindle oil—American Oil Co.  Five gallons Cardinal engine oil—American Oil Co.  Manual machine construction—Industrial Publishing Co. Sixty-six machine drawings—Industrial Publishing Co.  Repairing valves of gas engine—Williams & Orton	1 50 3 25
2 2	Manual machine construction—Industrial Publishing Co.	5 00
1 H 2 2	Sixty-six machine drawings—Industrial Publishing Co.	10 00 15 00
9 2	Seven pieces castings—Judson Manufacturing Co.	5 80
12 7 4 0	Three gas engine rings—H. P. Gregory & Co.	4 50 9 00
. 8	Six bundles catgut—Justinian Caire	3 00
12	Four gross screws—Justinian Caire	80 1 50
7	One bottle varnish—Justinian Caire	75
14 2	Repairing valves of gas engine—Williams & Orton Seven pieces castings—Judson Manufacturing Co. Three gas engine rings—H. P. Gregory & Co. Sixty feet 1-inch walnut—White Brothers Six bundles catgut—Justinian Caire Four gross screws—Justinian Caire Twelve pulleys—Justinian Caire One bottle varnish—Justinian Caire	75
7	ADDRANA NO S A Chillege of Mines	
14 2	ADDRANA NO S A Chillege of Mines	75 \$222 09 \$0 25
14 2	ADDRANA NO S A Chillege of Mines	\$222 09 \$0 25 2 00
14 2	ADDRANA NO S A Chillege of Mines	75 \$222 09 \$0 25
14 2	ADDRANA NO S A Chillege of Mines	\$222 09 \$0 25 2 00 100 00 3 05 55
14 2	ADDRANA NO S A Chillege of Mines	\$0 25 \$0 00 \$0 00 \$0 55 \$0 55 \$12 60 \$0 25
14 2	ADDRANA NO S A Chillege of Mines	\$222 09 \$0 25 2 00 100 00 8 05 55 12 60 25 1 00
14 2	ADDRANA NO S A Chillege of Mines	75 \$222 09 \$0 25 2 00 100 00 3 05 55 12 60 • 26 1 00 12 09 3 05
14 2	ADDRANA NO S A Chillege of Mines	\$0 25 2 00 100 00 3 05 12 60 12 09 3 05 4 50
14 2 4 2	ADDRANA NO S A Chillege of Mines	75 \$222 09 \$0 25 2 00 100 00 3 05 55 12 60 • 26 1 00 12 09 3 05
14 2	ADDRANA NO S A Chillege of Mines	\$0 25 2 00 100 00 3 05 12 60 1 26 1 00 12 09 3 05 4 50 1 00 4 50 3 50
14 2 4 2	ADDRANA NO S A Chillege of Mines	75 \$222 09  \$0 25 2 00 100 00 3 05 55 12 60 26 1 00 12 09 3 06 4 50 1 00 4 50
14 2 4 2	ADDRANA NO S A Chillege of Mines	\$0 25 2 00 100 00 3 05 55 12 60 1 00 12 09 3 05 4 50 1 00 4 50 3 50 10 75 3 60 7 75
14 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt.  One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one case machinery—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad  One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire  Riders—Justinian Caire  One pulley—Clot & Meese  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.	75 \$222 09  \$0 25 2 00 100 00 3 05 55 12 60 26 1 00 12 09 3 06 4 50 1 00 4 50 3 50 10 75 8 60
14 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt.  One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one case machinery—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad  One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire  Riders—Justinian Caire  One pulley—Clot & Meese  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.	\$0 25 2 00 100 00 3 05 55 12 60 1 00 12 09 3 05 4 50 1 00 4 50 3 50 10 75 8 60 7 76 8 75 1 00
14 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt.  One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one case machinery—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad  One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire  Riders—Justinian Caire  One pulley—Clot & Meese  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.	75 \$222 09  \$0 25 2 00 100 00 3 05 55 12 60 25 1 00 12 09 3 06 4 50 1 00 4 50 3 50 10 75 8 60 7 76 8 75 70
14 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt. One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co. One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one package castings—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire—  One pulley—Clot & Meese—  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co. One thousand three hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Four thousand four hundred cubic feet gas—Oakland Gas Co.  Twelve feet ½—inch pipe—John J. Menges  Twenty-six pieces plain glass—John J. Menges  One nipple to order—Dalziel & Moller One copying ribbon for typewriter—Jones & Givens	\$0 25 2 00 100 00 3 05 55 12 60 12 69 3 05 4 50 1 00 4 50 3 50 10 75 8 60 7 76 8 75 7 00 1 00 1 50 1 00
14 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt. One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co. One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one package castings—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire—  One pulley—Clot & Meese—  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co. One thousand three hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Four thousand four hundred cubic feet gas—Oakland Gas Co.  Twelve feet ½—inch pipe—John J. Menges  Twenty-six pieces plain glass—John J. Menges  One nipple to order—Dalziel & Moller One copying ribbon for typewriter—Jones & Givens	75 \$222 09  \$0 25 2 00 100 00 3 05 55 12 60 26 1 00 12 09 3 06 4 50 1 00 4 50 3 50 10 75 8 60 7 76 8 75 70 1 00 1 50
14 2 4 2 1 3 3 1 3 1 9	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt. One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co. One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one package castings—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire—  One pulley—Clot & Meese—  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co. One thousand three hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Four thousand four hundred cubic feet gas—Oakland Gas Co.  Twelve feet ½—inch pipe—John J. Menges  Twenty-six pieces plain glass—John J. Menges  One nipple to order—Dalziel & Moller One copying ribbon for typewriter—Jones & Givens	75 \$222 09 \$0 25 2 00 100 00 3 05 55 12 60 1 2 09 3 05 4 50 1 00 4 50 3 50 10 75 8 75 7 76 8 75 7 70 1 00 25 1 50 1 50 1 50
14 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt. One thousand one hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. One hundred and five gallons coal oil—Osborn & Alexander Expressage on one package castings—Patterson & Co. Expressage on one case machinery—Patterson & Co. Expressage on one case machinery—Atlantic and Pacific Railroad One thousand one hundred cubic feet gas—Oakland Gas Co. Rubber tubing—Justinian Caire. One pulley—Clot & Meese.  Expressage on one tank oil—Patterson & Co. Three thousand nine hundred cubic feet gas—Oakland Gas Co. One thousand three hundred cubic feet gas—Oakland Gas Co. Three thousand four hundred cubic feet gas—Oakland Gas Co. Twelve feet ½-inch pipe—John J. Menges.  Twenty-six pieces plain glass—John J. Menges. One nipple to order—Dalziel & Moller One copying ribbon for typewriter—Jones & Givens One shield—Jones & Givens Three impression strips—Jones & Givens Repairs to dynamo—Keith Electric Co. One gaspipe die—C. F. Marwedel One foot brass tube—C. F. Marwedel Welding and of tube—Hippelley Spiers & Haves	75 \$222 09 \$0 25 2 00 100 00 3 05 55 12 60 26 1 00 12 09 3 06 4 50 1 00 4 50 3 50 10 75 8 76 8 76 7 70 1 00 20 1 50 1 50
14 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt. One thousand one hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. One hundred and five gallons coal oil—Osborn & Alexander Expressage on one package castings—Patterson & Co. Expressage on one case machinery—Patterson & Co. Expressage on one case machinery—Atlantic and Pacific Railroad One thousand one hundred cubic feet gas—Oakland Gas Co. Rubber tubing—Justinian Caire. One pulley—Clot & Meese.  Expressage on one tank oil—Patterson & Co. Three thousand nine hundred cubic feet gas—Oakland Gas Co. One thousand three hundred cubic feet gas—Oakland Gas Co. Three thousand four hundred cubic feet gas—Oakland Gas Co. Twelve feet ½-inch pipe—John J. Menges.  Twenty-six pieces plain glass—John J. Menges. One nipple to order—Dalziel & Moller One copying ribbon for typewriter—Jones & Givens One shield—Jones & Givens Three impression strips—Jones & Givens Repairs to dynamo—Keith Electric Co. One gaspipe die—C. F. Marwedel One foot brass tube—C. F. Marwedel Welding and of tube—Hippelley Spiers & Haves	75 \$222 09 \$0 25 2 00 100 00 3 05 55 12 60 12 09 3 05 4 50 1 00 4 50 3 50 10 75 8 60 7 75 8 75 70 1 00 25 1 50 1 50 1 50 1 50 1 50 1 50 1 50 1 5
14 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	Expressage on one box glass—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Expressage on three cases machinery—Patterson & Co.  Five tons English coke—T. H. Henderson, Agt. One thousand one hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co. One hundred and five gallons coal oil—Osborn & Alexander  Expressage on one package castings—Patterson & Co.  Expressage on one case machinery—Patterson & Co.  Freight on one case machinery—Atlantic and Pacific Railroad One thousand one hundred cubic feet gas—Oakland Gas Co.  Rubber tubing—Justinian Caire—  One pulley—Clot & Meese—  Expressage on one tank oil—Patterson & Co.  Three thousand nine hundred cubic feet gas—Oakland Gas Co. One thousand three hundred cubic feet gas—Oakland Gas Co.  Three thousand one hundred cubic feet gas—Oakland Gas Co.  Four thousand four hundred cubic feet gas—Oakland Gas Co.  Twelve feet ½—inch pipe—John J. Menges  Twenty-six pieces plain glass—John J. Menges  One nipple to order—Dalziel & Moller One copying ribbon for typewriter—Jones & Givens	75 \$222 09 \$0 25 2 00 100 00 3 05 55 12 60 25 1 00 12 09 3 06 4 50 1 00 4 50 3 50 10 75 8 76 8 75 70 1 00 20 1 50 1 50 1 50 4 50 7 76

## Eight thousand six hundred cubic feet gas—Oakland Gas Co..... \$21 5 Two water gauge glasses—Osborn & Alexander Two water gauge glasses—Osborn & Alexander Five assorted files—Savage Bros. Expressage on castings, etc.—Patterson & Co. Expressage on coal—Wells, Fargo & Co. Fifty pounds dairy salt—Joseph McClain Two furnace cover clamps—W. McIntosh Expressage—Patterson & Co. One thousand nine hundred cubic feet gas—Oakland Gas Co. Two thousand four hundred cubic feet gas—Oakland Gas Co. Three papers screws—Savage Bros. Fifty-two feet redwood—Henry W. Taylor One half gross screws—Savage Bros. One half dozen pencils—Savage Bros. One half dozen bolts—Savage Bros. One half dozen bolts—Savage Bros. \$264 2 APPENDIX No. 8 B-College of Mines-State Appropriation. One tool grinder complete—Stearns Manufacturing Co...... \$50 0 Four 9-inch by 1-inch emery wheels—Stearns Manufacturing Co. 20 0 Six sets electrode connections—J. Henderson. One thousand feet redwood—Henry W. Taylor Two hundred feet pine—Henry W. Taylor. 16 2 32 0 8 0 2 0 8 5 Mill work One smoke hood—Geo, H. Tay & Co. One sheet-iron frame—Geo, H. Tay & Co. Altering desk and refitting connections—A. H. Broad Six registers and thimbles—W. W. Montague & Co. Castings and iron work for crucible frame—Hinckley, Spiers & Hayes 28 0 25 0 115 0 Gas burner—Justinian Caire Gas burner—Justinian Caire Crucible covers—Justinian Caire One 4-way hopper—Geo. H. Tay & Co. Three gallons rubber paint—Whittier, Fuller & Co. One gallon of turpentine—Whittier, Fuller & Co. One gallon boiled oil—Whittier, Fuller & Co. Bolts and rods—Hinckley, Spiers & Hayes Mason work on furnace—H. L. Whitney 49 10 \$417 3 APPENDIX No. 9-Department of Lick Observatory. \$35 00 Ten cases Starlight oil—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co. One 7-foot saw—Farmers Union Thirteen-pound steel sledge—Farmers Union Eight-pound steel wedges—Farmers Union One sledge handle—Farmers Union One hand saw—Farmers Union One rip saw—Farmers Union Two screwdrivers—Farmers Union Fifteen cans chloride lime—Farmers Union One half dozen brooms—Farmers Union One half dozen mons—Farmers Union One half dozen mops—Farmers Union Ten dozen castile soap—Farmers Union One half dozen lantern globes—Farmers Union One half dozen lamp shades—Farmers Union One half dozen lamp shades—Farmers Union One tack hammer—Farmers Union One carpenter's hammer—Farmers Union Three Mann's copy book—Payot, Upham & Co. One half dozen ink wells—Payot, Upham & Co. One third dozen quarts violet ink—Payot, Upham & Co. One sixth dozen quarts Arabin ink—Payot, Upham & Co. One and one half reams legal—Payot, Upham & Co. One and one half reams letter—Payot, Upham & Co. One and one half reams note—Payot, Upham & Co. One and one half reams note—Payot, Upham & Co. Fifteen cases Starlight oil—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co. Thirty gallons machine oil—Whittier, Fuller & Co.

#### DISBURSEMENTS-Continued.

Ten gallons pure sperm oil—Whittier, Fuller & Co	\$11 00
Cartage on same—Whittier, Fuller & Co.	50
Flax nacking	15 00
Waste packing—Union Iron Works	7 00
One observing lantern—H. Allen Mathews One half dozen bottles watch oil—H. Allen Mathews	1 25
One half dozen bottles watch oil—H. Allen Mathews	1 50
One dozen lottles watch oil—H. Allen Mathews.  Thirteen tons hay—J. D. D. Bernal  Three thousand seven hundred and fifty pounds barley—Farmers Union Four hundred and eighty-five pounds bran—Farmers Union Postage stamps—S. H. Wagener Ten coils barbed wire—H. Allen Mathews Thirteen sheets galvanized iron—H. Allen Mathews Twenty dozen 8x10 seed plates—H. Allen Mathews One dozen 11x12 seed plates—H. Allen Mathews	195 00
Three thousand seven hundred and fifty pounds barley—Farmers Union	30 00
Four hundred and eighty-five pounds bran—Farmers Union	4 00
Postage stamps—S. H. Wagener	50 00
Ten coils barbed wire—H. Allen Mathews	10 00
Thirteen sheets galvanized iron—H. Allen Mathews	15 00
Twenty dozen 8x10 seed plates—H. Allen Mathews	48 00
One dozen 10x12 seed plates—H. Allen Mathews	3 80
One dozen 11x14 seed plates—H. Allen Mathews	0 00
One dozen 11x14 seed plates—H. Allen Mathews Ten dozen 4x5 seed plates—H. Allen Mathews Ten dozen 3\frac{1}{2}x4\frac{1}{2} Eastman plates—H. Allen Mathews	6 50
Ten dozen 3\frac{1}{2}x4\frac{1}{2} Eastman plates—H. Allen Mathews	6 50
One ounce nitric ammonia—H. Allen Mathews	20
One ounce gum sandarac—H. Allen Mathews One pound chloroform—H. Allen Mathews	. 50
One pound chloroform—H. Allen Mathews	65
One pound mittiate uranium—H. Allen Mathews	. 85
Five our ope oil lavender	1 25
Nine bottles chloride gold—H. Allen Mathews	5 00
One quart alcohol—H. Allen MathewsOne ounce chloride ammonia—H. Allen Mathews	75
One ounce chloride ammonia—H. Allen Mathews	20
One ounce sodium—H, Allen Mathews Gratings on silvered glass—E. S. Holden	60
Gratings on silvered glass—E. S. Holden	15 00
One span sorrel mules—ira Hageman	300 00
Twine and tacks—Farmers Union One dozen papers tacks—H. Allen Mathews Five gallons alcohol—J. Archambeault	95
One dozen papers tacks—H. Allen Mathews	40
Five gallons alcohol—J. Archambeault	14.25
One barrel lime—J. Archambeault.  Two pounds green paint—J. Archambeault	2 00
Two pounds green paint—J. Archambeault	60
Ten pounds chloride of lime-J. Archambeault	1 00
Fifty feet rain conductor—J. Archambeault Eleven and a quarter feet belting—J. Archambeault	5 00
Eleven and a quarter feet beiting—J. Archambeault	2 30
Three hose couplings and nipples—J. Archambeault One and a half gross matches—J. Archambeault Twenty packages toilet paper—J. Archambeault Sixty-six feet white cedar—Santa Clara Valley Lumber Company One hundred and eighty paper boxes—A. Fleishhacker & Co. One hundred sheets blotting paper—B. Westermann & Co. Cutting and hauling wood—Hugh Kennedy.	4 20
One and a hair gross matches—J. Archambeault	2 50
Twenty packages tonet paper—J. Archamoeaut	2 50
Sixty-six feet write cedar—Santa Clara valley Lumber Company	5 28
One hundred and eighty paper poxes—A. Flessmacker & Co.	11 25
Outline and builting paper—B. Westermann & Co.	8 00
Cutting and naturing wood—High Remedy	9 50 40 00
Cutting twenty cords wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—Hugh Kennedy Cutting and hauling wood—Hugh Kennedy	63 00
Cutting and hauling wood—II. C. Blownedy	24 00
Cutting and harling wood—H C Brown	12 00
Cutting thirteen and one half cords wood. H. C. Brown	
Cutting and hanling wood—H C Brown	27 00 58 50
Cutting and hauling wood—H. C. Brown Cutting thirteen and one half cords wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—J. R. Kincaid	207 00
Cutting and hanling wood—H. C. Brown	30 00
Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Four bullseye lanterns—H. A. Mathews	45 00
Four bullseve lanterns—H. A. Mathews	4 75
Labor setting up tanks—R. Fraser.  Three hundred and thirty-three split pickets—Santa Clara Valley Lumber Co. Repairing eye end of 12-inch telescope; supplies and labor—Union Iron W'ks	10 00
Three hundred and thirty-three split pickets—Santa Clara Valley Lumber Co.	9 99
Repairing eye end of 12-inch telescope; supplies and labor—Union Iron W'ks	68 65
Ten cords 4-100t wood—E. S. Holden	60 00
Ruling blanks—Hicks-Judd Co.	50
Ruling blanks—Hicks-Judd Co One electro blank—Bancroft Co	75
Five hundred postal cards—J. W. Flynn	5 00
One signal service—Yale University.	3 50
One signal service—Yale University One letter balance—Geo. W. Welch One balf dozen chimneys—Richard Briggs	2 00
One half dozen chimneys—Richard Briggs	1 50
Two retort stands—H. A. Mathews. One set cork borers—H. A. Mathews.	2 00
One set cork borers—H. A. Mathews	2 75
Two pounds vulcanized rubber—H. A. Matnews	3 50
One printing frame—H. A. Mathews	8 00
One printing frame—H. A. Mathews	2 50
One newspaper file—H. A. Mathews	_ 60
Sixty naner hoves—A Fleishhacker & Co.	3 80
Two Rochester founts—Thos. Day & Co	4 25
Two Rochester founts—Thos. Day & Co	8 50
Mounting reversion prism—J. A. Brashear.	12 00
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5 00

Platinum wire—Justinian Caire. Labor as machinist, etc.—A. J. Burnham Two pounds Canada balsam—Justinian Caire Making valve stems—Wight & Branham Services as carpenter—R. P. Fraser Telegrams in May—Western Union Telegraph Co. Telegrams in June—Western Union Telegraph Co. Telegrams in June—Western Union Telegraph Co. Observatory announcement for 1888—Harvard College. Freight on oil—J. Archambeault. Hauling during May—J. R. Kincaid Hauling during July—H. C. Brown Hauling during July—H. C. Brown Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, July and August—Mt. Hamilton Stage Co. Express charges—Union Iron Works Placing iron posts at five corners of reservation—Hugh Kennedy Fixing place for tanks—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as laborer—Hugh Kennedy Services as laborer—Hugh Kennedy Services as laborer—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plates, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One pair sweat pads—Fred. M. Stern One whip—Hatman & Normandin Two tin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
Making valve stems—Wight & Brahham Services as carpenter—R. P. Fraser Telegrams in May—Western Union Telegraph Co. Telegrams in June—Western Union Telegraph Co. Telegrams in July—Western Union Telegraph Co. Observatory announcement for 1888—Harvard College. Freight on oil—J. Archambeault. Hauling during May—J. R. Kincaid. Hauling during July—H. C. Brown. Hauling during July—H. C. Brown. Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown. Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges, July and August—Mt. Hamilton Stage Co. Express charges—Union Iron Works. Placing iron posts at five corners of reservation—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as laborer—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plaites, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair T. S. shears—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One pair halters and stays—Fred. M. Stern One whip—Hatman & Normandin Two tin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
Making valve stems—Wight & Brahham Services as carpenter—R. P. Fraser Telegrams in May—Western Union Telegraph Co. Telegrams in June—Western Union Telegraph Co. Telegrams in July—Western Union Telegraph Co. Observatory announcement for 1888—Harvard College. Freight on oil—J. Archambeault. Hauling during May—J. R. Kincaid. Hauling during July—H. C. Brown. Hauling during July—H. C. Brown. Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown. Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges, July and August—Mt. Hamilton Stage Co. Express charges—Union Iron Works. Placing iron posts at five corners of reservation—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as laborer—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plaites, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair T. S. shears—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One pair halters and stays—Fred. M. Stern One whip—Hatman & Normandin Two tin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
Making valve stems—Wight & Brahham Services as carpenter—R. P. Fraser Telegrams in May—Western Union Telegraph Co. Telegrams in June—Western Union Telegraph Co. Telegrams in July—Western Union Telegraph Co. Observatory announcement for 1888—Harvard College. Freight on oil—J. Archambeault. Hauling during May—J. R. Kincaid. Hauling during July—H. C. Brown. Hauling during July—H. C. Brown. Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown. Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges, July and August—Mt. Hamilton Stage Co. Express charges—Union Iron Works. Placing iron posts at five corners of reservation—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as laborer—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plaites, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair T. S. shears—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One pair halters and stays—Fred. M. Stern One whip—Hatman & Normandin Two tin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
Hauling during May—J. R. Kincaid. Hauling during July—H. C. Brown Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges—Union Iron Works Placing iron posts at five corners of reservation—Hugh Kennedy Fixing place for tanks—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as labore—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plates, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair f. S. shears—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One whip—Hatman & Normandin Two bin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
Hauling during May—J. R. Kincaid. Hauling during July—H. C. Brown Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges—Union Iron Works Placing iron posts at five corners of reservation—Hugh Kennedy Fixing place for tanks—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as labore—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plates, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair f. S. shears—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One whip—Hatman & Normandin Two bin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
Hauling during May—J. R. Kincaid. Hauling during July—H. C. Brown Freight charges—Chas. B. Hill. Hauling in August—H. C. Brown Express charges, April and May—Mt. Hamilton Stage Co. Express charges, May and June—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges, June and July—Mt. Hamilton Stage Co. Express charges—Union Iron Works Placing iron posts at five corners of reservation—Hugh Kennedy Fixing place for tanks—Hugh Kennedy Repairing water engine—Union Iron Works Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as labore—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plates, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll Nipples, fittings, and ribs—Farmers Union One pair f. S. shears—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One whip—Hatman & Normandin Two bin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co.
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Hauling in August—H. C. Brown  Express charges, April and May—Mt. Hamilton Stage Co.  Express charges, May and June—Mt. Hamilton Stage Co.  Express charges, July and August—Mt. Hamilton Stage Co.  Express charges, July and August—Mt. Hamilton Stage Co.  Express charges—Union Iron Works  Placing iron posts at five corners of reservation—Hugh Kennedy  Fixing place for tanks—Hugh Kennedy  Repairing water engine—Union Iron Works  Eight new shoes—T. A. Carroll  Fixing place for tanks—Hugh Kennedy  Services as laborer—Hugh Kennedy  Services as laborer—Hugh Kennedy  Postage stamps—S. H. Wagener  Six dozen plaites, 8x10—M. A. Seed Dry Plate Co.  Twelve new shoes—T. A. Carroll  Nipples, fittings, and ribs—Farmers Union  Five 2-inch gate valves—Farmers Union  One pair T. S. shears—Farmers Union  One pair Boston collars—Fred. M. Stern.  One pair halters and stays—Fred. M. Stern  One whip—Hatman & Normandin  Two tin tubes—F. Klein  One door—Santa Clara Valley Mill and Lumber Co.
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One door—Santa Clara Valley Mill and Lumber Co.
One door—Santa Clara Valley Mill and Lumber Co.
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Single and doubletrees—I. Archambeault
Freight charges advanced—J. Archambeault
Lathe work on cylinders—Wight & Branham
Freight charges advanced—J. Archambeault Lathe work on cylinders—Wight & Branham Four and one sixth dozen blank books—H. A. Mathews \$12 50
One rubber stamp 2 00
<b>\$14</b> 50
Less 10 per cent1 45
Eighty-four and one half pounds flax packing—Union Iron Works
Repairing micrometer—A. Lietz & Co
Eighty-four and one half pounds flax packing—Union Iron Works  Repairing micrometer—A. Lietz & Co.  Two dozen lamp chimneys and freight—C. W. J. Martens
Expressage prepaid—B. Westermann & Co
Expressage prepaid—B. Westermann & Co. Expressage during August and September—Mt. Hamilton Stage Co.
Freight on packing—Southern Pacific Company
Transporting actings reports Walls Farm & Co.
Expressed during September, Mt. Hamilton Stage Co.
Expressage during September—Mt. Hamilton Stage Co.
Expressage during September—Mt. Hamilton Stage Co. Three relays N. P.—Paul Seilers Electrical Works  Three relays N. Company to the Paul Seilers Electrical Works
Expressage during September—Mt. Hamilton Stage Co. Three relays N. P.—Paul Seilers Electrical Works Three cells Dr. Gassner battery—Paul Seilers Electrical Works
Expressage during September—Mt. Hamilton Stage Co. Three relays N. P.—Paul Seilers Electrical Works Three cells Dr. Gassner battery—Paul Seilers Electrical Works Ten pounds chromic acid—Paul Seilers Electrical Works
Expressage during August and September—Mt. Hamilton Stage Co. Freight on packing—Southern Pacific Company Transporting eclipse reports—Wells, Fargo & Co. Expressage during September—Mt. Hamilton Stage Co. Three relays N. P.—Paul Seilers Electrical Works Three cells Dr. Gassner battery—Paul Seilers Electrical Works Ten pounds chromic acid—Paul Seilers Electrical Works One dozen ferrotype plates—H. A. Mathews
Three ounces hydroquinine—H. A. Mathews One ounce bydrate sodium—H. A. Mathews
Three ounces hydroquinine—H. A. Mathews One ounce bydrate sodium—H. A. Mathews
Three ounces hydroquinine—H. A. Mathews One ounce hydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews
Three ounces hydroquinine—H. A. Mathews One ounce hydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews
Three ounces hydroquinine—H. A. Mathews One ounce hydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews One brace and saw—Farmers Union
Three ounces hydroquinine—H. A. Mathews One ounce bydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews One brace and saw—Farmers Union Twelve-foot stepladder—Farmers Union
Three ounces hydroquinine—H. A. Mathews One ounce hydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews One brace and saw—Farmers Union Twelve-foot stepladder—Farmers Union One gross screws—Farmers Union
Three ounces hydroquinine—H. A. Mathews One ounce hydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews One brace and saw—Farmers Union Twelve-foot stepladder—Farmers Union One gross screws—Farmers Union
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Three ounces hydroquinine—H. A. Mathews One ounce bydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews One brace and saw—Farmers Union Twelve-foot stepladder—Farmers Union One gross screws—Farmers Union One pair butts—Farmers Union Lock and glue—Farmers Union One half dozen padlocks—Farmers Union
Three ounces hydroquinine—H. A. Mathews One ounce bydrate sodium—H. A. Mathews One dozen hooks and staples—H. A. Mathews One thousand eight hundred McGill fasteners—H. A. Mathews One railroad lantern—H. A. Mathews One brace and saw—Farmers Union Twelve-foot stepladder—Farmers Union One gross screws—Farmers Union One pair butts—Farmers Union Lock and glue—Farmers Union One half dozen padlocks—Farmers Union
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Five gallons shellac—Farmers Union Special work on spectroscope—John A. Brashear One short focus objective—John A. Brashear One long focus objective—John A. Brashear One lens for photo work—John A. Brashear One special eyepiece—John A. Brashear Expressage—John A. Brashear Expressage—John A. Brashear Expressage—John A. Brashear Expressage—Postroscope—Union Iron Works Drawing of bronze tablet—F. Seregni Expressage—Patterson & Co. Postage stamps—S. H. Wagener Postage stamps—S. H. Wagener Postage stamps—S. H. Wagener Fifteen cases Starlight oil—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co. Refiguring surfaces of spectroscope—John A. Brashear Payment of all charges for expressage up to January 1, 1850—Mount Hamilton Stage Co. One bundered and fifty acceptable insulators. Pool Science Electical World	\$22 50
Special work on spectroscope—John. A. Brashear	79 00
One short focus objective—John A. Brashear	12 00
One long focus objective—John A. Brashear	12 00
One lens for photo work—John A. Brashear	7 00
One special eyepiece—John A. Brashear	20 00
Expressage—John A. Brasnear.	3 15
Drawing of bronge tablet B Sergeri	37 96
Expressage—Patterson & Co	15 00
Postage stamps—S. H. Wagener	10 00
Postage stamps—S. H. Wagener	10 00
Postage stamps.—S. H. Wagener.	15 00
Fifteen cases Starlight oil—Goldberg, Bowen & Co.	37 50
Freight on same—Goldberg, Bowen & Co.	2 40
Refiguring surfaces of spectroscope—John A. Brashear	20 00
Payment of all charges for expressage up to January 1, 1890—Mount Hamil-	
one hundred and fifty porcelain insulators—Paul Seilers Electrical Works—One hundred and fifty 2-inch screws—Paul Seilers Electrical Works—Boxing same—Paul Seilers Electrical Works—Eight Paul Seilers Electrical	400 00
one hundred and fifty porcelain insulators—radi Seners Electrical Works.	2 69
One Bundred and fitty 2-inch screws—Paul Seilers Electrical Works Boxing same—Paul Seilers Electrical Works. Eight new shoes—T. A. Carroll One hundred and fifty insulators and screws—Paul Seilers Electrical Works. Refilling level and caps—A. Lietz & Co. One door—Santa Clara Valley Mill and Lumber Co. One ream P. O. paper—H. A. Mathews. Two and one half pounds cotton rope—H. A. Mathews One ream manilla paper—H. A. Mathews. One box rubber bands—H. A. Mathews. Five dozen 8x10 dry plates—E. & H. T. Anthony & Co. One H. W. G. lantern—E. & H. T. Anthony & Co. Five boxes F. P. paper—E. & H. T. Anthony & Co. One folio diary—Payot, Upham & Co. Five dozen 8x10 carbutt plates—Samuel C. Partridge Twenty ounces pyrogallic acid—H. A. Mathews. One Billings wrench—H. A. Mathews One Billings wrench—H. A. Mathews One half dozen balls hemp cord—H. A. Mathews. One dozen stove bolts—H. A. Mathews Two dozen oil boards—H. A. Mathews	1 50
Fight new shoes—T. A. Carroll	10
One hundred and fifty insulators and screws—Paul Seilers Electrical Works	4 25
Refilling level and caps—A. Lietz & Co.	3 50
One door—Santa Clara Valley Mill and Lumber Co.	5 00
One ream P. O. paper—H. A. Mathews	1 00
Two and one half pounds cotton rope—H. A. Mathews	1 25
One ream manilla paper—H. A. Mathews	3 50
One box rubber bands—H. A. Mathews	65
Five dozen 8x10 dry plates—E. & H. T. Anthony & Co.	
One H. W. G. lantern—E. & H. T. Anthony & Co.	15 66
Five boxes F. P. paper—E. & H. T. Anthony & Co.	
Une folio diary—Payot, Upham & Co.	2 50
Two dozen 8x10 caroutt plates—Samuel C. Farriage	15 15
Two dozon pick butts U A Mathews	9 00
One Rillings wrench—H A Mathews	10 40 1 00
One thousand brass head tacks—H. A. Mathews	1 50
One half dozen halls hemp cord—H. A. Mathews	1 50
One dozen stove bolts—H. A. Mathews	25
Ten dozen Acme note—H. A. Mathews	10 50
Two dozen oil boards—H. A. Mathews	1 50
Carpenter work—S. Howarth	55 00
Expenses to Lick Observatory and return—J. C. Rowell	5 50
Lieven indexes—Payot, Upnam & Co.	3 30
One dozen transier cases—Payot, Opnam & Co.	4 20
One hank and—Farmors Union	1 25 1 00
Three pounds twine—Farmers Union	.1 90
Ten pounds putty—Farmers Union	40
Vaseline—Farmers Union	50
Two and one half pounds rope—Farmers Union	45
Two dozen oil boards—H. A. Mathews Carpenter work—S. Howarth Expenses to Lick Observatory and return—J. C. Rowell Eleven indexes—Payot, Upham & Co. One dozen transfer cases—Payot, Upham & Co. Five yards curtaining—Rucker Bros. One hank cord—Farmers Union Three pounds twine—Farmers Union Ten pounds putty—Farmers Union Vaseline—Farmers Union Two and one half pounds rope—Farmers Union Tacks and matches—Farmers Union Two check yalves—Farmers Union	1 25
Two check valves—Farmers Union One strip leather—Farmers Union	3 50
One strip leather—Farmers Union	30
Six bolts twine—Farmers Union	60
One strip leather—Farmers Union Six bolts twine—Farmers Union Two sacks charcoal—Farmers Union Six spring hinges—Farmers Union Three pounds black paint—Farmers Union Twenty pounds nails—Farmers Union Fifty pounds buckwheat—Farmers Union One currycomb and brush—Farmers Union Neatsfoot oil—Farmers Union Neatsfoot oil—Farmers Union	1 20
Shi spring ninges—rarners Union	1 00
Twenty nounds nails. Fermers Union	75
Fifty nounds buckwheat.—Farmers Union	1 00 1 38
One currycomb and brush—Farmers Union	1 10
Neatsfoot oil—Farmers Union	35
Neatsfoot oil—Farmers Union One mill file—Farmers Union	.\ 20
Copper rivets—Farmers Union	\ 75
Iron rivets—Farmers Union	1 60
Three files—Farmers Union	1 60
Fireen pounds 30d nails—Farmers Union	60
Casting ring for cell of finder—wight & Brannam	2 50 4 86
Reneiring march. Hatman & Normandin	4 86 3 00
Bight name shoos_T A Carroll	3 00 4 00
One mil file—Farmers Umon. Copper rivets—Farmers Union Iron rivets—Farmers Union Three files—Farmers Union Fifteen pounds 30d nails—Farmers Union Casting ring for cell of finder—Wight & Branham Twelve dozen 3½x½ plates—M. A. Seed Dry Plate Co. Repairing wagon—Hatman & Normandin Eight new shoes—T. A. Carroll Postage stamps—S. H. Wagener	25 00
	20 00

204

#### DISBURSEMENTS-Continued.

Cin mans 3s ball bade Therman II do	
Hoop iron—Farmers Union Six pounds ball twine—Farmers Union Four barrels of lime—Farmers Union Two barrels of cement—Farmers Union	
Two barrels of cement—Farmers Union	
Parlor matches—Farmers Union	
Parlor matches—Farmers Union Hoop iron—Farmers Union Two bolts twine—Farmers Union	
Two bolts twine—Farmers Union	
Three files—Farmers Union	
Strapping books—Farmers Union	
Cartage on books—Farmers Union	
Two barrels of cement—Farmers Union	
Five hundred feet of lumber—Farmers Union	
Hauling five thousand and fifty feet lumber—J. D. D. Bernal	
Hauling four thousand and ten pounds of freight—J. D. D. Bernal	
Board for man repairing telegraph line—E. Guth	
Board of Joseph Roban, repairing telegraph line	
Board of Joseph Roban, repairing telegraph line	
Board of W. W. Bent, repairing telegraph line	
Three cells Dr. Gasner battery—Paul Seilers Electrical Works	
Two bolts twine—Farmers Union Three files—Farmers Union Strapping books—Farmers Union Cartage on books—Farmers Union Two barrels of cement—Farmers Union Two barrels of cement—Farmers Union Five hundred feet of lumber—Farmers Union Hauling five thousand and fifty feet lumber—J. D. D. Bernal Hauling four thousand and ten pounds of freight—J. D. D. Bernal Board for man repairing telegraph line—E. Guth Board of Joseph Roban, repairing telegraph line Board of Joseph Roban, repairing telegraph line Board of W. W. Bent, repairing telegraph line Three cells Dr. Gasner battery—Paul Seilers Electrical Works Hauling one thousand six hundred and sixty pounds eclipse report— Kincaid Expressage during October—Mount Hamilton Stage Co.	–J. K.
Kincald	
Expressage during October—Mount Hamilton Stage Co.	
reight on reports to washington—rarmers Union	
Hauling five flundred feet lumber—H. C. Brown	
Hauling two horrols of coront U.C. Prown	
Hanling three thousand five hundred nounds traight. H. C. Prown	
Hanling one thousand two hundred and fifty nounds freight. H. C. B.	lacura.
Reneiring telephone lineH. C. Brown	IOWII
Freight on seeds and nanerFarmers Union	
Freight on goods to East—Farmers Union	
Freight during November—Farmers Union	
One hundred feet upholstery cord—H. A. Mathews	
One developing pan—H. A. Mathews	
Fifty pounds wire straps—H. A. Mathews	
One 8x10 plate mirror—H. A. Mathews	
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One 5-inch periscopic eyepiece—Gundlach Optical Co.	100 00
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"Modern Artillery"—E. G. Allen	
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"Decisive Battles"—E. (7. Allen	11
American Kriegspiel—Gustaye E. Stechert	2 12
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Six Wheeler's "Field Fortifications"—Samuel Carson & Co.	10 5
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Stencil paint—Stewart & Trowbridge	, , , , , , , , , , , , , , , , , , ,
Expressage on letter press—Patterson & Co.	ř
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APPENDIX No. 12—Department of Physics.	\$273
Ten plates of photographic map of solar spectrum—N. Murray	\$18
One Galton's whistle—James W. Queen & Co.	65
Two ounces platinum wire—Justinian Caire	1 1
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One dozen test tubes—Justinian Caire	10
Six 16-ounce flasks—Justinian Caire	1 5
Six 8-ounce flasks—Justinian Caire	1
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One can vaseline—Justinian Caire	10
Six candlesticks—Justinian Caire	1 (
Wrapping paper—Justinian Caire One dozen chimneys—Justinian Caire	-8
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Candles—Justinian Caire	
Five pounds nitrate ammonia—Justinian Caire	100
One 12-inch vernier caliper—Darling, Brown & Sharpe.	95 (
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Freight on one case animals—Southern Pacific Co.  Twenty-nine relief maps—J. H. Emerton Packing and cartage—J. H. Emerton Packing and cartage—J. H. Emerton	87
Packing and cartage—J. H. Emerton	2
Expressage on one case models—Patterson & Co. Freight on one case models—Southern Pacific Co.	1
Freight on one case models—Southern Pacific Co.	4
Ives strata and altitude map—J. T. B. Ives  Expressage—Wells, Fargo & Co.	14 4
•	\$825
APPENDIX No. 18—University Site Improvements.	
One coil barbed wire and staples—Dunham, Carrigan & Hayden Co.	\$4
Labor, as per July payroll	227
Labor, as per August payroll.	226
Labor, as per August payroll  One Johnson hose coupling—H. W. Fenson  Labor, as per September payroll  Treatment of bossels aven. Dr. d. d. Toyol	1
Labor, as per September payroll	210
Treatment of horse's eyes—Dr. A. de Tavel  Baling seventy-eight bales of hay (10125 tons)—John Meyers One lawn sprinkler—Pierce & Co.  Three iron wedges—Nelson & McLellan	84 19
One lawn sprinkler—Pierce & Co.	2
Three iron wedges—Nelson & McLellan	$\frac{2}{1}$
One ganon lard on—Joseph McClain	1
Two cans grease—Joseph McClain One crosscut saw—Dunham, Carrigan & Hayden Co	3
One one-man saw—Dunham Carrigan & Hayden Co.	2
One one-man saw—Dunham, Carrigan & Hayden Co. One pair Climax handles—Dunham, Carrigan & Hayden Co.	
One Morrel saw-set—Dunham, Carrigan & Hayden Co.	1
One half dozen mill files—Dunham, Carrigan & Hayden Co.	
Expressage (one roll wire and one package)—Patterson & Co. Two hundred pounds coarse salt—Joseph McClain	2
New crosspar in rake—Nelson & McLellan	2
New tooth cleaner in rake—Nelson & McLellan	
One casting and bolt for mower—Nelson & McLellan	
Eight new shoes—Nelson & McLellan	219
Labor, as per October payroll Steeling two picks—Nelson & McLellan	1
Two clevis pins and keys—Nelson & McLellan	
Two clevis pins and keys—Nelson & McLellan One pick steeled and sharpened—Nelson & McLellan Eight new shoes Nelson & McLellan	
Eight new shoes—Nelson & McLellan	4
•	. *

Repairing harness—P. Nichelmann Two zinc collar pads—P. Nichelmann Four hame straps—P. Nichelmann One pair spreads and rings—P. Nichelmann	1	00 00 80 50
Labor, as per November payroll  Fifteen hundred and thirty-one pounds seed oats—Paul Keyser  Labor, as per December payroll	224 21	00
Two spares sparpened, and plow pandle—Nelson & McLellan	1	50
Eight new shoes—Nelson & McLellan  Fight & onnce viels—A B Morrill	4	00 35
One journal—A. B. Merrill Labor, as per January payroll	201	
One journal—A. B. Merrill Labor, as per January payroll Expressage on eighteen sacks of oats—Patterson & Co. Labor, as per February payroll Repairing chain and nut to cart—Nelson & McLellan	157	
kepairing chain and nut to cart—Nelson & McLellan Crank to grindstone—Nelson & McLellan Two shares sharpened, and one bolt—Nelson & McLellan		75 50 75
Eight new shoes—Nelson & McLellan Labor, as per March payroll One 1½ inch elbow—Alameda Water Co.	4	00 00 15
Putting in pipe, etc., on campus—J. J. Dunn Labor for April, as per payroll Blacksmithing for April—Nelson & McLellan	190 305	02
Une half dozen lawn rakes—Joseph McClain	4	
Labor, as per May payroll. Blacksmithing for May—Nelson & McLellan	330 10	
Appendix No. 19—University Printing Office.	\$2,981	69
Expressage—Patterson & Co.	\$12	35
Type—Tatum & Bowen Paper—Blake, Moffitt & Towne	255	33
Ink—E. J. Shattuck & Co. Printing press—Tatum & Bowen	27	80
Traveling expenses—J. W. Flynn Sundries	1	50 50
	\$724	45

STATE APPROPRIATION (ONE-CENT FUND) FOR THE FISCAL YEAR ENDING JUNE 30, 1889.

Statement of expenditures of the State University Fund, as directed in an Act of the Legislature of the State of California, entitled "An Act to provide for the permanent support and improvement of the University of California by the levy of a rate of taxation and the creation of fund therefor," approved February 14, 1887.

\$92,385

RECEIPTS.	
May 13, 1889, by cash on Controller's warrant	-
Disbursements.	
To College of Chemistry.	
Gas, from October, 1887, to June, 1888—Oakland Gas Co Expressage on one barrel alcohol—Patterson & Co Expressage on two cases, one barrel—Patterson & Co	-1
One compression faucet—M. De La Montanya Two gas cocks—M. De La Montanya Sixteen assorted fittings—M. De La Montanya Twelve feet gas pine—M. De La Montanya	-
Twelve feet gas pipe—M. De La Montanya One foot tapering stove-pipe—M. De La Montanya Two feet 6-inch stove-pipe—M. De La Montanya Two feet 5½-inch stove-pipe—M. De La Montanya	-
One corrugated elbow, 6-inch—M. De La Montanya One corrugated elbow, 5½-inch—M. De La Montanya Twenty-one pounds acetic acid—Justinian Caire Six hundred and twenty-four grains platinum—Justinian Caire	-
One corrugated elbow, 54-inch—M. De La Montanya Twenty-one pounds acetic acid—Justinian Caire. Six hundred and twenty-four grains platinum—Justinian Caire Twenty filters—Justinian Caire Two Bunsen carbonic apparatus—Justinian Caire Six teen and one half feet steel wire cloth—Justinian Caire One steel anyil	-
One hatchet Twenty-one assorted drills One set drills	-
Three wrenches Bill of Franz Schilling, of Gehlberg, Germany, in marks; total in dollars and cents: One hundred and forty round bottles, No. 1, at .55 M	ī
Case and packing 8.00 Sixty-two round bottles, No. 1, at .55 M. 34.10 Two bundred and four round bottles, No. 4, at .30 M. 61.20	
Two hundred and three round bottles, No. 2, at .43 M 87.29 Thirteen preparation dishes, with cover at .70 M	)
Case and packing Two hundred and thirty-two round bottles, No. 3, at. 40 M. Case and packing Five sets beakers, twelve in a set, at 4.75 M.  8.00 23.75	)
Twelve sets beakers, twelve in a set, at 3.00 M	)
Four sets beakers, eight in a set, at 1.50 M	)
Four sets beakers, eight in a set, at 1.50 M. 6.00  Case and packing 7.00  Forty-six sets beakers, eight in a set, at 1.50 M. 69.00  Fifty sets beakers, five in a set, at .75 M. 37.50  Fifty-two sets beakers, three in a set, at .38 M. 19.76  Fifty flasks, 100 gr., at 6.00 M. per 100 3.00  Twenty-five flasks, 60 gr., at 5.50 M. per 100 1.37  Twelve flasks, 30 gr., at 5.00 M. per 100 6.00  Fifty flasks, 200 gr., at 9.00 M. per 100 4.50  Case and packing 7.00	3
Twelve flasks, 30 gr., at 5.00 M. per 100	)
Twenty-five flasks, 1,000 gr., at .25 M. 6.25 Fifty flasks, 500 gr., at .18 M. 9.00	5
Case and packing       9.00         Thirty flasks, 750 gr., at .20 M.       6.00         Two Erlenmeyer's flasks, 1,000 gr., at .33 M.       .66	3
Two nundred Hasks, 200 gr., at .10 M.       20.00         Case and packing       9.00         Thirty flasks, 750 gr., at .20 M.       6.00         Two Erlenmeyer's flasks, 1,000 gr., at .33 M.       .60         Ten Erlenmeyer's flasks, 500 gr., at .32 M.       2.20         Twenty Erlenmeyer's flasks, 250 gr., at .14 M.       2.80         Twenty-five Erlenmeyer's flasks, 100 gr., at .07 M.       1.76	3

Twenty-five Erlenmeyer's flasks, 60 gr., at .06 M.  Five retorts, without tubes, 60 gr., at .09 M.	M.1.50
Five retorts, without tubes, 60 gr., at .09 M.	.45
Five retorts, without tubes, 200 gr., at .12½ M.  Five retorts, without tubes, 250 gr., at .16 M.  One retort, without tube, 500 gr., at .22 M.  Five retorts, without tubes, 1,000 gr., at .36 M.  Six retorts, with tubes and stoppers, 100 gr., at .20 M.	.62
Five retorts, without tubes, 250 gr., at .16 M.	.80
One retort, without tube, 500 gr., at .22 M.	.22
Five retorts, without tubes, 1,000 gr., at .36 M.	1.80
Six retorts, with tubes and stoppers, 100 gr., at .20 M.	1.20
Five retorts, with tubes and stoppers, 250 gr., at .30 M	1.50
Five retorts, with tubes and stoppers, 250 gr., at .30 M Five retorts, with tubes and stoppers, 250 gr., at .40 M Three retorts, with tubes and stoppers, 2,000 gr., at .80 M Two retorts, with tubes and stoppers, 4,000 gr., at 1.25 M Cross and positive tubes and stoppers, 4,000 gr., at 1.25 M	2.00
Three retorts, with tubes and stoppers, 2,000 gr., at .80 M.	2.40
Two retorts, with tubes and stoppers, 4,000 gr., at 1.25 M.	1.50
Case and packing	9.00
Six chloride of calcium tubes, No. 490 a, at .35 M.	2.10
Six chloride of calcium tubes, No. 490 b, at .35 M.	2.10
Six chloride of calcium tubes, No. 490 c, at .35 M.	2.10
Six potash apparatus, No. 397, at .40 M.	2.40
Two potash apparatus, No. 398, at .90 M.	1.80
Two potash apparatus, No. 399, at .41 M.	.82
Two potash apparatus, No. 400, at .45 M.	.90
Two potash apparatus, No. 401, at .41 M.	.82
Two potash apparatus, No. 395, at 1.80 M.	3.60
Three nitrogen apparatus, No 390, at 50 M.	1.50
Two nitrogen apparatus, No. 392, at .40 M.	.80
Twelve chloride of calcium tubes, No. 388, at .40 M.	4.80
One reduction apparatus, No. 424, at 1.00 M.	1.00
One apparatus, No. 408, at .88 M.	.88
One apparatus, No. 423, at .70 M.	.70
Two apparatus, No. 420, at 1.00 M.	2.00
Two apparatus, No. 421, at .70 M.	1.40
Two apparatus, No. 422, at .40 M.	.80
One apparatus, No. 403, at 2.60 M.	2.60
One apparatus, No. 404, at 2.60 M.	2.60
Two arsenic testing tiles, No. 467, at .35 M.	.70
Five bulb tubes, No. 475, at .20 M.	1.00
One hundred and seventy-five glass tears, No. 474, at 1.80	- 1
Three retorts, with tubes and stoppers, 2,000 gr., at .80 M.  Two retorts, with tubes and stoppers, 4,000 gr., at 1.25 M.  Case and packing  Six chloride of calcium tubes, No. 490 a. at .35 M.  Six chloride of calcium tubes, No. 490 b. at .35 M.  Six chloride of calcium tubes, No. 490 c. at .35 M.  Six potash apparatus, No. 397, at .40 M.  Two potash apparatus, No. 398, at .90 M.  Two potash apparatus, No. 398, at .41 M.  Two potash apparatus, No. 400, at .45 M.  Two potash apparatus, No. 396, at .180 M.  Three nitrogen apparatus, No. 390, at .50 M.  Two nitrogen apparatus, No. 392, at .40 M.  Twelve chloride of calcium tubes, No. 388, at .40 M.  One reduction apparatus, No. 424, at 1.00 M.  One apparatus, No. 428, at .70 M.  Two apparatus, No. 420, at 1.00 M.  Two apparatus, No. 421, at .70 M.  Two apparatus, No. 403, at 2.60 M.  One apparatus, No. 404, at 2.60 M.  One apparatus, No. 404, at 2.60 M.  Two arsenic testing tiles, No. 467, at .35 M.  Five bulb tubes, No. 475, at .20 M.  One hundred and seventy-five glass tears, No. 474, at 1.80 M.  One warming tube, No. 510	3.15
One warming tube, No. 510	1.00
Five tubes, No. 524, at .40 M.	2.00
Five tubes, No. 523, at .40 M.	2.00
Two tubes, No. 520, at .12 M.	.24
Ten flasks, 10 gr., at .05 M.	.50
Ten flasks, 15 gr., at .06 M.	.60
Ten flasks, 20 gr., at .07 M	.70
Ten flasks, 25 gr., at .08 M.	.80
Ten flasks, 40 gr., at .09 M.	.90
One retort, without tubes, 10 gr., at .06 M	.06
One retort, without tubes, 15 gr., at .08 M.	.08
One retort, without tubes, 20 gr., at .10 M.	.10
One retort, without tubes, 25 gr., at .13 M	.13
One retort, without tubes, 40 gr.	.15
One retort, without tubes, 50 gr.	.17
One retort, without tubes, 75 gr.	.20
One retort, with tubes, 10 gr.	.10
Two retorts, with tubes, 15 gr., at .13 M	.26
Two retorts, with tubes, 20 gr., at .16 M.	.32
One retort, with tubes, 25 gr.	.18
Two retorts, with tubes, 40 gr., at .20 M.	.40
One retort, with tubes, 50 gr.	.22
One retort, with tubes, 75 gr.	.28 2.70
Six tubes, No. 573, at .45 M.	2.70
Five safety funnels, No. 591, at .70 M.	3.50
live safety funnels, No. 592, at .50 M.	2.50
Six drying tubes, No. 605, at .33 M.	1.98
Six drying tubes, No. 608, at .30 M.	1.80
one gas regulator, No. 438, at 1.50 M.	1.50
two gas regulators, No. 439, at .65 M.	1.30
Two glass pipettes, No. 432, at 1.00 M.	2.00
rour glass pipettes, No. 439, at 1.20 M.	4.80
Two glass pipettes, No. 455, at 1.00 M.	2.00
Two glass pipettes, No. 457, at 5.00 M.	6.00
The state of the s	3.20 26.00
twenty-six apparatus, No. 508, at 1.00 Mi.	20.00
Two arsenic testing files, No. 467, at .35 M. Five bulb tubes, No. 475, at .20 M. One hundred and seventy-five glass tears, No. 474, at 1.80 M. per 100 One warming tube, No. 510 Five tubes, No. 524, at .40 M. Five tubes, No. 523, at .40 M. Five tubes, No. 520, at .12 M. Ten flasks, 10 gr., at .05 M. Ten flasks, 10 gr., at .06 M. Ten flasks, 20 gr., at .07 M. Ten flasks, 25 gr., at .08 M. Ten flasks, 40 gr., at .09 M. One retort, without tubes, 10 gr., at .06 M. One retort, without tubes, 10 gr., at .08 M. One retort, without tubes, 20 gr., at .10 M. One retort, without tubes, 20 gr., at .13 M. One retort, without tubes, 30 gr. One retort, without tubes, 50 gr. One retort, without tubes, 50 gr. One retort, without tubes, 15 gr., at .13 M. Two retorts, with tubes, 15 gr., at .18 M. Two retorts, with tubes, 10 gr. Two retorts, with tubes, 10 gr. Two retorts, with tubes, 10 gr., at .16 M. One retort, with tubes, 20 gr., at .16 M. One retort, with tubes, 40 gr., at .20 M. One retort, with tubes, 50 gr. Two retorts, with tubes, 40 gr., at .20 M. One retort, with tubes, 70 gr. One retort, with out tubes, 70 gr. One retort, with tubes, 70 gr. One retort, with out tubes, 70 gr. One retort, with out tubes,	

#### Six pipettes, without mark, 10 c.c.m., at .05 M. ...... M.0.30 Six pipettes, without mark, 10 c.c.m., at .05 M. Five pipettes, without mark, 10 c.c.m., at .06 M. Seven pipettes, without mark, 25 c.c.m., at .07 M. Eight pipettes, without mark, 50 c.c.m., at .10 M. Six pipettes, without mark, 75 c.c.m., at .12 M. Three pipettes, without mark, 100 c.c.m. at .15 M. Two pipettes, without mark, 125 c.c.m., at .20 M. Two pipettes, without mark, 140 c.c.m., at 25 M. Twelve chloride of calcium tubes, No. 489, at .05 M. Five chloride of calcium tubes, No. 487, at .15 M. .40 .50 .60 Twenty-six tiles for arsenic testing, No. 489, at .03 M. Twenty-six tiles for arsenic testing, No. 470, at .03 M. Twenty-six tiles for arsenic testing, No. 471, at .03 M. Twenty-six tiles for arsenic testing, No. 471, at .03 M. .78 .78 Twenty-six tiles for arsenic testing, No. 470, at .03 M. Twenty-six tiles for arsenic testing, No. 471, at .03 M. Three pipettes, with mark, 1 c.c.m., at .10 M. Three pipettes, with mark, 2 c.c.m., at .12 M. Three pipettes, with mark, 5 c.c.m., at .15 M. Five pipettes, with mark, 10 c.c.m., at .18 M. Twelve pipettes, with mark, 10 c.c.m., at .20 M. Five pipettes, with mark, 20 c.c.m., at .20 M. Two pipettes, with mark, 20 c.c.m., at .20 M. One pipette, with mark, 20 c.c.m., at .30 M. One pipettes, with mark, 100 c.c.m., at .50 M. Two cylinders, with mouth, 5 c.c.m., at .30 M. Two cylinders, with mouth, 10 c.c.m., at .40 M. Seven graduated stoppered bottles, 5 c.c.m., at .10 M. Five graduated stoppered bottles, 20 c.c.m., at .15 M. Five graduated stoppered bottles, 20 c.c.m., at .15 M. Five graduated stoppered bottles, 50 c.c.m., at .20 M. Two graduated stoppered bottles, 50 c.c.m., at .25 M. Two graduated stoppered bottles, 50 c.c.m., at .25 M. Two graduated stoppered bottles, 50 c.c.m., at .25 M. Two graduated stoppered bottles, 50 c.c.m., at .26 M. Three graduated stoppered bottles, 200 c.c.m., at .35 M. Four graduated stoppered bottles, 200 c.c.m., at .36 M. Three graduated stoppered bottles, 500 c.c.m., at .60 M. Two graduated stoppered bottles, 500 c.c.m., at .60 M. Two graduated stoppered bottles, 250 c.c.m., at .60 M. Two graduated stoppered bottles, 250 c.c.m., at .60 M. Two graduated stoppered bottles, 250 c.c.m., at .60 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .60 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. Two graduated stoppered bottles, 250 c.c.m., at .70 M. .45 2.40 1.25 .42 $1.\overline{50}$ .60 .80 .50 .30 .75 1.00 1.25 1.05 1.80 1.50 3.00 .80 1.40 3.00 .33 One Woulff bottle, three necks, 25 gr. One Woulff bottle, three necks, 50 gr. .43 .50 One Woulff bottle, three necks, 30 gr... One Woulff bottle, three necks, 100 gr... Two thermometers, graduated, 10–100 degrees, at 1.50 M... Two thermometers, graduated, 100–200 degrees, at 3.00 M. Two thermometers, graduated, 200–360 degrees, at 3.40 M. .60 .70 3.00 6.00 Two thermometers, graduated, 100–200 degrees, at 3.00 M. Two thermometer, scale 50½ degrees. One thermometer, scale 50½ degrees. One thermometer, scale 50½ degrees. One thermometer, scale 50½ degrees. Three thermometers, scale 100 degrees, at 1.50 M. Six thermometers, scale 250 degrees, at 1.80 M. Six thermometers, scale 200 degrees, at 1.80 M. Six thermometers, scale 200 degrees, at 1.80 M. Five thermometers, scale 360 degrees, at 2.00 M. Two thermometers, scale 100 degrees, at 2.00 M. Two thermometers, scale 100 degrees, at 1.35 M. Two thermometers, paper scale, 100 degrees, at 1.00 M. One thermometer, graduated in ½ degree. One thermometer, graduated in ½ degree. Thirty-three thermometer stands, at 10 M. Five safety funnels, No. 585, at .15 M. Six safety funnels, No. 586, at .20 M. Five safety funnels, No. 588, at .25 M. Two safety funnels, No. 588, at .25 M. Two safety funnels, No. 590, at .33 M. Twenty funnel tubes, No. 601, at .12 M. Twenty funnel tubes, No. 602, at .10 M. One flask, with movable head, 50 gr. One flask, with movable head, 75 gr. One flask, with movable head, 100 gr. One flask, with movable head, 100 gr. 6,80 6.00 5.00 6.00 4.50 10.80 10.80 10,00 2,70 2.00 1.50 1.80 3.30 1.75 .50 .66 .40 .45 .50

One flask, with movable head, 150 gr. M. Two flasks for gas washing, 100 gr., at .75 M. One flask for gas washing, 200 gr. One flask for gas washing, 500 gr. One flask for gas washing, 1,000 gr. One flask for gas washing, 750 gr. One flask for gas washing, 250 gr. Two flasks for gas washing, 200 gr., at 1,00 M. Fifteen glass stopcocks, No. 612, at 1.00 M. One 3-mouthed stopcock	0.70
Two flasks for gas washing, 100 gr., at .75 M.	1.50
One flask for gas washing, 200 gr.	1.00
One flask for gas washing, 500 gr.	1.25
One flask for gas washing, 1,000 gr.	2.00
One flask for gas washing, 750 gr.	1.70
One flask for gas washing, 250 gr.	1.10
Two flasks for gas washing, 200 gr., at 1.00 M.	2.00
Fifteen glass stopcocks, No. 612, at 1.00 M.	15.00
Fifteen glass stopcocks, No. 612, at 1.00 M. One 8-mouthed stopcock Two large stopcocks, at 2.00 M. Two apparatus, with soxhlets, 100 gr., at 1.75 M. Two apparatus, with soxhlets, 60 gr., at 1.40 M. One flask for washing gases, \$\frac{1}{2}\$ litre One flask for washing gases, \$\frac{1}{2}\$ litre Two chloride of calcium cylinders, 30 c.m. high, at .75 M. Four chloride of calcium cylinders, 25 c.m. high, at .65 M. Five chloride of calcium cylinders, 25 c.m. high, at .60 M. One head, No. 503, 10 gr. One head, No. 503, 15 gr. One head, No. 503, 25 gr. One head, No. 503, 55 gr. One head, No. 503, 75 gr. One head, No. 503, 10 gr. One head, No. 503, 10 gr. One head, No. 503, 10 gr. One head, No. 503, 50 gr. One head, No. 503, 10 gr. One eye syringe, No. 465	
Two arrestors, at 2.00 M.	4.00
Two apparatus, with soxniets, 100 gr., at 1.75 M.	3.50
One fleet for weeking going 1 litre	2.80
One flack for washing gases, 7 litre	.75 1.00
Two chloride of calcium cylinders 30 cm, high at 75 M	1.50
Four chloride of calcium cylinders, 28 c. m. high, at .75 M	2.60
Five chloride of calcium cylinders, 25 c.m. high, at .60 M.	3.00
One head, No. 503, 10 gr.	.12
One head, No. 503, 15 gr.	.15
One head, No. 503, 20 gr.	.17
One head, No. 503, 25 gr.	.20
One head, No. 503, 50 gr.	.25
One head, No. 503, 75 gr.	.30
One head, No. 503, 100 gr.	.35
One eye syringe, No. 465	.80
Two round bottom nasks, 10 gr., at .07 M.	.14
Two round bottom floats 95 cm of 60 M	.16
Two round-bottom flagks 20 cm at 10 M	.20
Two round-hottom flacks, 50 gr., at 11 M	.22
Two round-bottom flasks, 50 gr., at 12 M	.24
Two round-bottom flasks, 75 gr., at .13 M.	.26
Two pear-shaped flasks, 10 gr., at .07 M.	.14
Two pear-shaped flasks, 20 gr., at .08 M.	.16
Two pear-shaped flasks, 25 gr., at .09 M.	.18
One head, No. 503, 75 gr. One head, No. 503, 100 gr. One head, No. 503, 100 gr. One eye syringe, No. 465. Two round-bottom flasks, 10 gr., at .07 M. Two round-bottom flasks, 25 gr., at .08 M. Two round-bottom flasks, 25 gr., at .09 M. Two round-bottom flasks, 30 gr., at .11 M. Two round-bottom flasks, 40 gr., at .11 M. Two round-bottom flasks, 50 gr., at .12 M. Two round-bottom flasks, 50 gr., at .13 M. Two round-bottom flasks, 50 gr., at .13 M. Two pear-shaped flasks, 10 gr., at .07 M. Two pear-shaped flasks, 25 gr., at .08 M. Two pear-shaped flasks, 25 gr., at .08 M. Two pear-shaped flasks, 25 gr., at .10 M. Two pear-shaped flasks, 25 gr., at .11 M. Two pear-shaped flasks, 25 gr., at .11 M. Two pear-shaped flasks, 50 gr., at .11 M. Two pear-shaped flasks, 50 gr., at .11 M. Two pear-shaped flasks, 50 gr., at .13 M. Twenty flasks, 50 gr., at .05½ M. Twenty flasks, 75 gr., at .06 M. Case and packing. Twenty reduction tubes, at .20 M. One hundred test tubes, 15 c.m. long, 16 m.m. One hundred test tubes, 15 c.m. long, 20 m.m. One hundred test tubes, 15 c.m. long, 20 m.m. One hundred test tubes, 10 c.m. long, 20 m.m. One hundred test tubes, 10 c.m. long, 20 m.m. One hundred test tubes, 10 c.m. long, 13 m.m. One hundred test tubes, 12 c.m. long, 20 m.m. One hundred test tubes, 12 c.m. long, 13 m.m. One hundred test tubes, 18 c.m. long, 13 m.m. One hundred test tubes, 18 c.m. long, 10 m.m. One hundred test tubes, 18 c.m. long, 10 m.m. One hundred test tubes, 18 c.m. long, 10 m.m. One hundred test tubes, 10 c.m. long, 10 m.m. One hundred test tubes, 10 c.m. long, 10 m.m. One hundred test tubes, 10 c.m. long, 10 m.m. One hundred test tubes, 5 c.m. long, 10 m.m. One hundred test tubes, 5 c.m. long, 10 m.m. One hundred test tubes, 5 c.m. long, 10 m.m. One hundred test tubes, 5 c.m. long, 10 m.m. One hundred test tubes, 5 c.m. long, 10 m.m.	.20
Two pear-shaped flasks, 40 gr., at .11 M.	.22
Two pear-shaped flasks, 50 gr., at .12 M.	.24
Two pear-snaped nasks, 75 gr., at .13 M.	.26
Twelve fleeles 75 cm of 06 M	1.10
Case and nacking	$\frac{.72}{8.00}$
Twenty reduction tubes at 20 M	4.00
One hundred test tubes, 15 c.m. long 16 m m	4.00 2.70
One hundred test tubes, 18 c.m. long, 16 m.m.	3.20
One hundred test tubes, 20 c.m. long, 20 m.m.	4.00
One hundred test tubes, 15 c.m. long, 20 m.m.	3.10
One hundred test tubes, 10 c.m. long, 20 m.m.	2.50
One hundred test tubes, 18 c.m. long, 20 m.m.	3.70
One hundred test tubes, 10 c.m. long, 16 m.m.	2.00
One hundred test tubes, 10 c.m. long, 13 m.m.	1.60
One hundred test tubes, 12 c.m. long, 20 m.m.	3.00   2.20
One hundred test tubes, 14 c.m. long, 15 m.m.	6.00
One hundred test tubes 18 c m long 13 m m	2.90
One hundred test tubes, 8 c.m. long, 10 m.m.	1.20
One hundred test tubes, 10 c.m. long, 10 m.m.	1.30
One hundred test tubes, 12 c.m. long, 10 m.m.	1.80
One hundred test tubes, 5 c.m. long, 6 m.m.	.75
One hundred test tubes, 5 c.m. long, 10 m.m.	1.00
one number test tubes, 5 c.m. long, 15 m.m	1.40
One hundred test tubes, 5 c.m. long, 6 m.m. One hundred test tubes, 5 c.m. long, 10 m.m. One hundred test tubes, 5 c.m. long, 13 m.m. One hundred test tubes, 5 c.m. long, 16 m.m. One hundred test tubes, 5 c.m. long, 20 m.m.	1.40
Une numered test tubes, o c.m. long, 20 m.m.	1.50
Fight Llifts Heeks at 30 M	.90
Twenty reduction tubes 1 bulk of 90 M	2.40 4.00
Ten reduction tubes, 2 bulb, at 30 M	3.00
One pair colorimeter cylinders	5.50
Three flasks, with tubes, 10 gr., at .10 M.	3.30
Three flasks, with tubes, 20 gr., at .12 M.	.36
Two flasks, with tubes, 25 gr., at .12 M.	.24
One hundred test tubes, 5 c.m. long, 16 m.m. One hundred test tubes, 5 c.m. long, 20 m.m. Five dropping tubes, at .18 M. Eight 1-litre flasks, at .30 M. Twenty reduction tubes, 1 bulb, at .20 M. Ten reduction tubes, 2 bulb, at .30 M. One pair colorimeter cylinders. Three flasks, with tubes, 10 gr., at .10 M. Three flasks, with tubes, 20 gr., at .12 M. Two flasks, with tubes, 25 gr., at .12 M. Three flasks, with tubes, 30 gr., at .13 M.	.39
	•

\$357 75

### DISBURSEMENTS-Continued.

Two flasks, with tubes, 40 gr., at .15 M.  Two flasks, with tubes, 75 gr., at .16 M.  Two flasks, with tubes, 70 gr., at .20 M.  One separatory funnel, \$\frac{1}{2}\$ litre  One separatory funnel, 200 gr.  Two separatory funnels, 150 gr., at 1.25 M.  Five funnels, 5 c.m. diameter, at .07 M.  One hundred test tubes, 10 c.m. by 13 m.m.  One hundred test tubes, 10 c.m. by 16 m.m.  Case and packing  One hundred test tubes, 15 c.m. long, 33 m.m. diameter.  One hundred test tubes, 15 c.m. long, 26 m.m. diameter.  One hundred test tubes, 18 c.m. long, 26 m.m. diameter.  One hundred test tubes, 18 c.m. long, 26 m.m. diameter.  One hundred test tubes, 18 c.m. long, 26 m.m. diameter.  One hundred test tubes, 8 c.m. long, 16 m.m. diameter.  One hundred test tubes, 8 c.m. long, 18 m.m. diameter.  One hundred test tubes, 8 c.m. long, 18 m.m. diameter.  Ten test tubes, 4 c.m. long, 6 m.m. diameter.  Ten test tubes, 10 c.m. long, 13 m.m. diameter.  Ten test tubes, 10 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 15 c.m. long, 20 m.m. diameter.  Ten test tubes, 10 c.m. long, 13 m.m. diameter.  Ten test tubes, 10 c.m. long, 20 m.m. diameter.  Ten test tubes, 10 c.m. long, 20 m.m. diameter.  Ten test tubes, 10 c.m. long, 20 m.m. diameter.  Ten test tubes, 10 c.m. long, 20 m.m. diameter.  Ten test tubes, 10 c.m. long, 20 m.m. diameter.	M.0.30
Two flasks, with tubes, 50 gr., at, 16 M.	32
Two flashs with tubes 75 or at 18 M	36
True fleely with tuber 100 m at 00 M	140
I WO HASKS, WITH TUDES, 100 gr., at .20 M.	1.40
One separatory funnel, 4 litre	1.00
One separatory funnel, & litre	2.00
One separatory funnel, I litre	2.50
One separatory funnel, 200 gr.	1.25
Two separatory funnels 150 or at 1 25 M	2.50
Five funnels 5 a m. diameter at 07 M	95
One handred test taken 10 and har 12 and and	1.00
One nundred test tubes, 10 c.m. by 15 m.m.	1.00
One hundred test tubes, 10 c.m. by 16 m.m.	2.00
Case and packing	9.00
One hundred test tubes 18 cm long 33 mm diameter	5.50
One hundred test tubes, 15 cm. long, 00 m.m. diameter.	9.00
One numered test tubes, 15 c.m. long, 20 m.m. diameter	3.50
One nundred test tubes, 15 c.m. long, 33 m.m. diameter	4.50
One hundred test tubes, 10 c.m. long, 26 m.m. diameter	3.00
One hundred test tubes, 18 c.m. long, 20 m.m. diameter.	3.70
One hundred test tubes 18 cm long 26 mm diameter	4.50
One hundred test tubes, 10 c.m. long, 20 m.m. diameter	1.50
One nundred test tubes, 8 c.m. long, 10 m.m. diameter	1.00
One hundred test tubes, 8 c.m. long, 13 in.m. diameter	1.30
One hundred test tubes, 8 c.m. long, 6 m.m. diameter	1.00
Ten test tubes, 4 c.m. long, 6 m.m. diameter	.30
Ten test tubes 8 cm long 13 mm diameter	.50
Ton took tubes, 0 c.m. long, 10 m.m. diameter	.35
Ten test tubes, 10 c.m. long, 15 m.m. diameter	.00
Ten test tubes, 12 c.m. long, 20 m.m. diameter	.60
Ten test tubes, 15 c.m. long, 26 m.m. diameter	.70
One washing bottle, 1 litre	.85
One washing hottle I litre	1.00
One washing bottle, a little	1.75
One washing bottle, I fitte	1.70
Six distillation tubes, with 2 builds, at 1.00 M	6.00
Six distillation tubes, with 3 bulbs, at 1.50 M	9.00
Five distillation tubes, with 4 bulbs, at 2.00 M.	10.00
Six distillation tubes with 5 bulbs at 3 00 M	18.00
Cim distillation tubes, with 6 bulbs, at 4.00 M	24.00
Six distillation tubes, with 6 bulbs, at 4.00 M.	24.00
Twelve weighing bottles, at .35 M.	4.20
One hundred and fifty homoeopathic bottles, 3 gr., at .12 M.	18.00
Six distillation tubes, with 3 bulbs, at 1.50 M.  Five distillation tubes, with 4 bulbs, at 2.00 M.  Six distillation tubes, with 5 bulbs, at 3.00 M.  Six distillation tubes, with 6 bulbs, at 3.00 M.  Twelve weighing bottles, at .35 M.  One hundred and fifty homeopathic bottles, 3 gr., at .12 M.  Twenty-six homeopathic bottles, 5 gr., at .14 M.  Twenty-five homeopathic bottles, 10 gr., at .16 M.  Twenty-five homeopathic bottles, 10 gr., at .18 M.  Twenty-five homeopathic bottles, 20 gr., at .20 M.  One urine tester—Dr. Vogel  One urine tester—Dr. Heller  One hydrometer, 70  One hydrometer, 30  One milk tester, with thermometer  Six covers, at .10 M.  Case and packing	3.77
Twenty-five homeopathic bottles 10 or at 16 M	4.00
Twenty six heremonethic bettles 15 cm at 18 M	4.68
Twenty-six nonneopatine bottles, 10 gr., at .16 M.	<b>4.00</b>
I wenty-nive nomeopathic pottles, 20 gr., at .20 M.	5.00
One urine tester—Dr. Vogel	1.25
One urine tester—Dr. Heller	.55
One hydrometer 70	.60
One hydrometer, 20	.50
One nyurometer, 50	1.50
One mik tester, with thermometer	1.50
Six covers, at .10 M.	.60
Case and packing	9.00
Twenty preparation tubes 200x85 m.m. at 1 00 M	20.00
Nine propertion tubes 160v70 m m at 70 M	6.30
The preparation tubes, 100x10 in in., at 10 in in.	. 0.00
Fourteen preparation tubes, 130x30 m.m., at .30 M.	7.00
Eighteen preparation tubes, 100x30 m.m., at .33 M.	5.94
Twelve preparation tubes, 85x30 m.m., at .32 M.	3.84
Twelve preparation tubes, 50x25 m.m., at .25 M.	3.00
Eight round bottles 200 gr at 18 M	1.44
Ciercan d'Labla a 200 en al 20 M	1.50
Six round bottles, 2,000 gr., at .80 M.	4.80
Four round bottles, 3,000 gr., at 1.25 M.	5.00
Twelve round bottles, 2,000 gr., at .75 M	9.00
One Woulff bottle, three necks, 200 gr., at .45 M.	.45
One Woulff bottle three necks 250 gr at 50 M	.50
One Would bettle 500 on of 50 W	50
Six covers, at .10 M.  Case and packing.  Twenty preparation tubes, 200x85 m.m., at 1.00 M.  Nine preparation tubes, 160x70 m.m., at .70 M.  Fourteen preparation tubes, 130x50 m.m., at .50 M.  Eighteen preparation tubes, 100x30 m.m., at .33 M.  Twelve preparation tubes, 50x30 m.m., at .32 M.  Twelve preparation tubes, 50x25 m.m., at .25 M.  Eight round bottles, 200 gr., at .18 M.  Six round bottles, 2,000 gr., at .80 M.  Four round bottles, 2,000 gr., at .125 M.  Twelve round bottles, 2,000 gr., at .75 M.  One Woulff bottle, three necks, 250 gr., at .45 M.  One Woulff bottle, three necks, 250 gr., at .50 M.  Case and packing	.70
Case and packing	8.00
Two round bottles, 3,000 gr., at 1.25 M	2.50
Five round bottles, 5,000 gr., at 1.90 M.	9.50
Two bottles, with tubulure, 8 litres, at 3.00 M.	6.00
One bottle, with tubulare, 6 litres	20.50
One bottle with tubulure 5 litres	2.50
One double, with funding, o lines.	2.00
One double cylinder, 2,000 c.c.m.	5.50
One double cylinder, 2,000 c.c.m.	5.30
One double cylinder, 1,500 c.c.m.	4.30
One double cylinder, 1,000 litres	3.20
One Woulff bottle, 500 gr., at .70 M.  Case and packing  Two round bottles, 3,000 gr., at 1.25 M.  Five round bottles, 5,000 gr., at 1.90 M.  Two bottles, with tubulure, 8 litres, at 3.00 M.  One bottle, with tubulure, 6 litres  One double cylinder, 2,500 c.c.m.  One double cylinder, 2,000 c.c.m.  One double cylinder, 1,500 c.c.m.  One double cylinder, 1,000 litres  One double cylinder, 1,000 c.c.m.  Two double cylinder, 1,000 c.c.m.  Two double cylinder, 1,000 c.c.m.	1 10
Two double cylinders 50 ccm of 95 M	1.10
- " o would of little in on oloshiel an 'On hi	. 1.70

Two double cylinders, 25 c.c.m., at .70 M.	M.1.40
One cylinder, with mouth, 500 c.c.m.  Two cylinders, with mouth, 50 c.c.m.  Six gas bottles, 1,000 gr., at .45 M.  Three gas bottles, 250 gr., at .20 M.  One Woulff bottle, with two necks, 1,000 gr.  One cylinder, with double spout, 1,000 c.c.m.	1.50
Two cylinders, with mouth, 50 c.c.m	1.20
Six gas bottles, 1,000 gr., at .45 M	2.70
Three gas bottles, 250 gr., at .20 M.	.60
One Would bottle, with two necks, 1,000 gr.	.80
One cylinder, with double spout, 1,000 c.c.m.	2.70
1 wo booker, with tubuluic, I livic	1.00
Casing and packing	8.00 22.00
Twenty-two kilos. soft glass tubing, Nos. 1-6, at 1.00 M Five and one half kilos. glass stirring rods, at 1.00 M	F F()
One burette, 100\frac{1}{2} c.c.m.  One burette, 100\frac{1}{2} c.c.m.  One burette, 50\frac{1}{4} c.c.m.  One burette, 50\frac{1}{4} c.c.m.  One burette, 100\frac{1}{4} c.c.m.  One burette, 100\frac{1}{4} c.c.m.  One hairoil burette, 250 c.c.m.  One hairoil burette, 500 c.c.m.	2.20
One burette, 1004 c.c.m.	3.10
One burette, 501 c.c.m.	1.40
One burette. 50 c.c.m.	2.25
One burette, 100 1/2 c.c.m.	1.70
One hairoil burette, 250 c.c.m.	1.80
One hairoil burette, 500 c.c.m. Ten test tubes, 60-10 m.m., at .04 M. Twenty-two funnels, 4 c.m. wide, at .06 M. Twenty-two funnels, 5 c.m. wide, at .07 M.	2,50
Ten test tubes, 60-10 m.m., at .04 M.	.40
Twenty-two funnels, 4 c.m. wide, at .06 M.	1.32
Twenty-two funnels, 5 c.m. wide, at .07 M.	1.54
Thirty funnels, 7 c.m. wide, at .08 M.	2.40
Twenty-four watch glasses, 10 m.m. diam., at .07 M.	1.68
Twenty-five watch glasses, 20 m.m. diam., at .08 M	$\frac{2.00}{2.50}$
Twenty four watch classes, 50 m.m. diam., at .10 M.	1 2.88
Fighteen watch glasses 50 m m diam at 15 M	2.70
Thirty funnels, 7 c.m. wide, at .08 M.  Twenty-four watch glasses, 10 m.m. diam., at .07 M.  Twenty-five watch glasses, 20 m.m. diam., at .08 M.  Twenty-five watch glasses, 30 m.m. diam., at .10 M.  Twenty-four watch glasses, 40 m.m. diam., at .12 M.  Eighteen watch glasses, 50 m.m. diam., at .15 M.  Eighteen watch glasses, 75 m.m. diam., at .20 M.  Ten watch glasses, 100 m.m. diam., at .50 M.  Five watch glasses, 200 m.m. diam., at .70 M.  Case and packing.	3.60
Ten watch glasses, 100 m.m. diam., at .50 M.	5.00
Five watch glasses, 200 m.m. diam., at .70 M.	3.50
Case and packing	4.50
Ç	
М.	1,518.67
Less 2 per cent for cash	
-	
	1,488.30
Bill of C. A. F. Kahlbaum, Berlin-amounts in marks,	
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	•
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:	3.50 3.00 1.50 1.50 2.00 1.80 .50 17.50 1.13
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars:  Five kilos. aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.80 .50 17.50 1.13
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos, arsenic One half kilo, calcium sulphide One kilo, hydrofiuoric acid One quarter kilo, aluminium sulphate One and one half kilos, pulverized iron One half kilo, iron sulphate One half kilo, iodine One quarter kilo, potassium arsenite One quarter kilo, potassium arsenate One quarter kilo, chromium oxide	2 50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos, arsenic One half kilo, calcium sulphide One kilo, hydrofiuoric acid One quarter kilo, aluminium sulphate One and one half kilos, pulverized iron One half kilo, iron sulphate One half kilo, iodine One quarter kilo, potassium arsenite One quarter kilo, potassium arsenate One quarter kilo, chromium oxide	3.50 3.00 1.50 1.50 2.00 1.80 .50 17.50 1.13 1.13
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos. aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.80 .50 17.50 1.13 1.13 6.00 2.50
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos, arsenic One half kilo, calcium sulphide One kilo, hydrofluoric acid One quarter kilo, aluminium sulphate One and one half kilos, pulverized iron One half kilo, iron sulphate One half kilo, iodine One quarter kilo, potassium arsenite One quarter kilo, potassium arsenate One quarter kilo, chromium oxide One half kilo, chromic acid Two and one half kilos, iron sesquichloride Two and one half kilos, iron sesquichloride	3.50 3.00 1.50 1.50 2.00 1.80 .50 17.50 1.13 1.13 1.13 6.00 2.50 2.00
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos, arsenic One half kilo, calcium sulphide One kilo, hydrofluoric acid One quarter kilo, aluminium sulphate One and one half kilos, pulverized iron One half kilo, iron sulphate One half kilo, iodine One quarter kilo, potassium arsenite One quarter kilo, potassium arsenate One quarter kilo, chromium oxide One half kilo, chromic acid Two and one half kilos, iron sesquichloride Two and one half kilos, iron sesquichloride	3.50 3.00 1.50 1.50 2.00 1.80 .50 17.50 1.13 1.13 1.13 6.00 2.50 2.00
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos, arsenic One half kilo, calcium sulphide One kilo, hydrofluoric acid One quarter kilo, aluminium sulphate One and one half kilos, pulverized iron One half kilo, iron sulphate One half kilo, iodine One quarter kilo, potassium arsenite One quarter kilo, potassium arsenate One quarter kilo, chromium oxide One half kilo, chromic acid Two and one half kilos, iron sesquichloride Two and one half kilos, iron sesquichloride	3.50 3.00 1.50 1.50 1.80 .50 11.13 1.13 1.13 2.50 2.00 .75 2.75
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos. arsenic One half kilo. calcium sulphide One kilo. hydrofiuoric acid One quarter kilo. aluminium sulphate One and one half kilos, pulverized iron One half kilo. iron sulphate One half kilo. iodine One quarter kilo. potassium arsenite One quarter kilo. potassium arsenite One quarter kilo. chromium oxide One half kilos. chromic acid Two and one half kilos. iron sesquichloride Two and one half kilos. aluminum sulphate Two and one half kilos. aluminum sulphate Two and one half kilos. aluminum chloride Two and one half kilos. aluminum mitrate	3.50 3.00 1.50 1.50 2.00 1.80 5.50 17.50 1.13 1.13 6.00 2.50 7.5 2.75 5.75
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate Two and one half kilos. arsenic One half kilo. calcium sulphide One kilo. hydrofiuoric acid One quarter kilo. aluminium sulphate One and one half kilos, pulverized iron One half kilo. iron sulphate One half kilo. iodine One quarter kilo. potassium arsenite One quarter kilo. potassium arsenite One quarter kilo. chromium oxide One half kilos. chromic acid Two and one half kilos. iron sesquichloride Two and one half kilos. aluminum sulphate Two and one half kilos. aluminum sulphate Two and one half kilos. aluminum chloride Two and one half kilos. aluminum mitrate	3.50 3.00 1.50 1.50 2.00 1.80 1.7.50 1.13 1.13 6.00 2.50 2.00 .75 2.75 5.75
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 2.00 1.80 5.50 17.50 1.13 1.13 1.13 6.00 2.00 .75 5.75 1.25 5.75
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.80 5.50 17.50 1.13 1.13 6.00 2.50 2.75 2.75 1.25 9.90 75
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.80 17.50 1.13 1.13 6.00 2.50 2.75 2.75 5.75 1.25 .90
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 2.00 1.80 5.50 17.50 1.13 1.13 1.13 6.00 2.00 .75 5.75 1.25 5.75 1.25 5.75 1.25 2.00
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.7.50 1.13 1.13 1.13 6.00 2.50 2.75 5.75 1.25 9.0 75 3.25 20.0 63
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.50 17.50 1.13 1.13 6.00 2.50 2.75 2.75 2.75 5.75 1.25 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.80 5.50 17.50 1.13 1.13 1.13 6.00 2.00 .75 5.75 1.25 2.75 5.75 1.25 2.00 .63 1.00 6.30
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.50 1.13 1.13 6.00 2.50 2.75 2.75 5.75 1.25 .90 6.3 2.90 6.3 2.90 6.3 2.90 6.3 2.90 6.3 2.90 6.3 2.90 6.3 2.90 6.3 6.90 6.90 6.90 6.90 6.90 6.90 6.90 6.90
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos. aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.50 17.50 1.13 1.13 1.13 6.00 2.00 .75 5.75 1.25 2.75 5.75 1.25 2.00 .63 2.90 4.38 2.90 4.38 2.25
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.50 1.13 1.13 1.13 6.00 2.50 2.75 2.75 2.75 1.25 .90 1.00 .63 1.00 .63 2.90 4.38 2.25
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.50 1.13 1.13 6.00 2.50 2.00 2.50 2.75 2.75 1.25 90 63 2.90 63 2.90 63 2.90 63 2.90 63 6.90 63 6.90 6.90 6.90 6.90 6.90 6.90 6.90 6.90
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.50 17.50 1.13 1.13 1.13 6.00 2.00 .75 5.75 1.25 2.75 5.75 1.25 2.00 .63 2.90 4.38 2.90 4.38 2.90 4.38 2.90 4.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50 6
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.50 1.50 1.13 1.13 1.13 6.00 2.50 2.75 2.75 2.75 3.25 20.00 63 1.00 4.38 2.29 4.38 2.25 1.00 1.63
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.50 1.13 1.13 6.00 2.50 2.75 2.75 2.75 3.25 20.00 .63 2.90 .63 2.90 .63 2.90 .63 2.90 .75 3.25 2.75 3.25 2.00 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos, aluminium ammonium sulphate	3.50 3.00 1.50 1.50 2.00 1.50 17.50 1.13 1.13 1.13 6.00 2.00 .75 5.75 1.25 2.75 5.75 1.25 2.00 .63 2.90 4.38 2.90 4.38 2.90 4.38 1.50 6.30 2.10 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.3
Bill of C. A. F. Kahlbaum, Berlin—amounts in marks, total in dollars: Five kilos. aluminium ammonium sulphate	3.50 3.00 1.50 1.50 1.50 1.50 1.50 1.13 1.13 6.00 2.50 2.75 2.75 2.75 3.25 20.00 .63 2.90 .63 2.90 .63 2.90 .63 2.90 .75 3.25 2.75 3.25 2.00 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25

One kilo, arsenic acid	M.1.00
One kilo. arsenic acid Two hundred and fifty gr. ammonium bichromate Two hundred and fifty gr. cobalt carbonate Two hundred and fifty gr. ammonium bromide Fifty gr. iron sesquichloride One hundred gr. coraline One fourth kilo. antimony Fifty gr. cobalt chloride (free of nickel) One kilo. commercial antimony One fourth kilo. lead Fifty gr. aluminium in bars One fourth kilo. cadmium One fourth kilo. antimony trioxide One half kilo. potassium bisulphate One half kilo. potassium bisulphate One hundred and twenty-five gr. potassium iodate One kilo. benzotrichloride One half kilo. posphoric acid One half kilo. phosphoric acid One half kilo. phosphoric acid One half kilo. sodium sulphate Two and one half kilos. strontium nitrate Two kilos. arsenic acid Five kilos. fluorspar	1.50
Two hundred and fifty gr. cobalt carbonate	6.25
Two nundred and fifty gr. ammonium promide	50
One hundred or coraline	1.00
One fourth kilo, antimony	2.50
Fifty gr. cobalt chloride (free of nickel)	2.00
One kilo, commercial antimony	1.10
One fourth kilo. lead	1.00
Fifty gr. aluminium in bars	6.50
One fourth kile, cadmium	1.50
One fourth kilo, anoming trioxide	1.50
One half kilo, notassium hisulphate	1.13
One half kilo, antimonic acid	5.50
One fourth kilo, peroxide of lead	.88
One hundred and twenty-five gr. potassium iodate	5.63
One kilo, benzotrichloride	16.00
One fourth kilo. phosphoric acid	1.50
One half kilo, sodium sulphate	.20
Two and one nair kilos, strontium nitrate	3.00
Two kilos, arsenic acid	2.00
Two and one half kilos notassium highromate	4.50
One kilo, potassium chloride	.80
Five kilos, potassium bichromate (commercial)	5.00
Two and one half kilos, calcium chloride	. 1.25
Two kilos, arsenic acid_ Five kilos, fluorspar_ Two and one half kilos, potassium bichromate One kilo, potassium chloride .' Five kilos, potassium bichromate (commercial)_ Two and one half kilos, calcium chloride One half kilo, anhydrous acetic acid Two and one half kilos, potassium hydrate Five kilos, barium carbonate_ Two and one half kilos, calcium carbonate Two and one half kilos, ammonium carbonate Ten kilos, ammonium carbonate (commercial)_	10.00
Two and one half kilos. potassium hydrate	4.25
Five kilos, barium carbonate	6.50
Two and one half kilos, calcium carponate	3.75
Tan biles ammonium carbonate (commercial)	10.00
Two and one half kilos sodium hydrate	4.00
Five kilos, barium hydrate	3.00
Five kilos. magnesium sulphate	1.50
Two and one half kilos. calcium carbonate Two and one half kilos. ammonium carbonate Ten kilos. ammonium carbonate (commercial) Two and one half kilos. sodium hydrate Five kilos. barium hydrate. Five kilos. magnesium sulphate One and one half kilos, magnesium carbonate Five kilos. sodium bisulphide Two hundred and fifty gr. magnesium oxide Five kilos. barium chloride Two and one half kilos. potassium hydrate One kilo. potassium carbonate Two and one half kilos. potassium nitrate One kilo. chloral hydrate One half kilo. calcium carbonate Two and one half kilos. potassium sodium carbonate Two and one half kilos. potassium sodium carbonate Two and one half kilos. potassium bicarbonate Two and one half kilos. potassium bicarbonate Two hundred and fifty gr. baric acid Two hundred and fifty gr. paric acid One half kilo. calcium oxide One half kilo. colcium oxide One half kilo. potassium nitrate One fourth kilo. sodium hyposulphite Two and one half kilos. potassium hydrate One fourth kilo. barium sulphide One half kilo. potassium sulphide	. 1.35
Five kilos. sodium bisulphide	5.00
Two hundred and fifty gr. magnesium oxide	. 63
Two and one half biles not againm hydroty	3.00 11.25
Two and one half kilos, potassium hydrate	12.00
Two hundred and fifty gr. asbestos	1.00
One kilo, potassium carbonate	2.20
Two and one half kilos, lead nitrate	2.75
One kilo. chloral hydrate	. 8.00
One kilo, potassium sulphate	1.00
One half kilo. calcium carbonate.	- 1.50
Two and one half kilos, potassium nitrate	9.00
Two and one half kilos barium hydrate	3.50
One half kilo, barium carbonate	2.00
Two and one half kilos, potassium bicarbonate	3.75
Two hundred and fifty gr. baric acid	38 \
Two hundred and fifty gr. precipitated manganese dioxi	de 1.88
Two hundred and fifty gr. calcium phosphate	50
One kilo, lead chromate	4.00
One half kilo, calcium oxide	35 3.00
One fourth kilo, sodium hyposulphite	2.13
Two and one half kilos, potassium hydrate	4.50
One fourth kilo, barium sulphide	93
One half kilo, potassium iodide	13.50
One fourth kilo, manganese chloride	63
One fourth kilo, calcium phosphate	1.38
One fauth bile netering breaklet.	3.25
One quarter bile, potassium promide	1.00 1.00
One quarter kilo, potassium curomate One quarter kilo, lead carbonate	88
Two and one half kilos. potassium hydrate One fourth kilo. barium sulphide One half kilo. potassium iodide One fourth kilo. manganese chloride One fourth kilo. calcium phosphate One half kilo. barium peroxide (hydrated) One fourth kilo. potassium bromide One quarter kilo. potassium chromate One quarter kilo. lead carbonate One hundred and twenty-five gr. manganese sulphate One hundred and twenty-five gr. potassium bromate Twenty-five gr. potassium periodate	35
One hundred and twenty-five gr. potassium bromate	2.13
Twenty-five gr. potassium periodate	4.50

	One half gr. osmium acid	M.2.40	
	One and one half kilos. potassium permanganate One kilo. copper carbonate Ten kilos. sodium phosphate Five kilos. sodium bicarbonate Two and one half kilos. sodium carbonate Two and one half kilos. sodium hyposulphite Two and one half kilos. sodium hydrate Two and one half kilos. sodium hydrate, in sticks Two and one half kilos. sodium carbonate One kilo. sodium nitrate	5.40	
	Con biles goding phognate	3.50 10.00	
•	Tire kilos, sodium bicerbonete	4.25	
	Two and one half kilos sodium carbonate	1.50	
	Two and one half kilos, sodium hyposulphite	1.75	
	Two and one half kilos, sodium hydrate	14.00	
	Two and one half kilos, sodium hydrate, in sticks	3.50	
	Two and one half kilos, sodium carbonate	5.50	h.
	One kilo. sodium nitrate	1.20	Ì
	One kilo, potassium cyanide	5.00	
	Two kilos. chloroform (commercial)	7.60	l
	Two and one half kilos. potassium hydrate	5.00	1
	One kilo. sodium chloride	.60	-
	One kilo, manganese carbonate	5.50	l
	One half kilo, molybolic acid	4.50 1.25	1
	One greater bile gine exide	.63	ļ
	One kilo. sodium nitrate One kilo. potassium cyanide Two kilos. chloroform (commercial) Two and one half kilos. potassium hydrate One kilo. sodium chloride One kilo. manganese carbonate One half kilo. molybdic acid One half kilo. soda lime One quarter kilo. sinc oxide One quarter kilo. sulphur One half kilo. copper perchloride One half kilo. tongsten acid sodium One half kilo. tongsten acid sodium One half kilo. strontium nitrate	.28	1
	One half kilo, conner perchloride	2.00	
	One half kilo, tongsten acid sodium	1.25	l
	One half kilo. strontium nitrate	1.30	
	One quarter kilo. nickel carbonate	2.13	1
	One quarter kilo. nickel carbonate One half kilo. ammonium bicarbonate	2.50	ł
	One half kilo. sulphur Two and one half kilos. zinc dust	.25	
	Two and one half kilos. zinc dust	1.38	1
	One quarter kilo. copper oxide	2.00	
	One half kilo. copper sulphate	50	1
	One quarter kilo. strontium chloride	28	1
	One quarter kilo, sodium nitrate	1.25	
	One quarter kilo. copper oxide One half kilo. copper sulphate One quarter kilo. strontium chloride One quarter kilo. sodium nitrate One half kilo. ammonium molybdate One cuarter kilo. sodium gilijaeta	4.50 1.50	1
	One quarter kilo, soutum sincate	43	
	One quarter kilo, crystanized sulpitur	50	1
	One quarter kilo, zinc chloride	.55	1
,	One quarter kilo, sodium pitrate	.23	
	One nair kilo. ammonium molyddate One quarter kilo. sodium silicate One quarter kilo. crystallized sulphur One quarter kilo. sodium pyrophosphate One quarter kilo. zinc chloride One quarter kilo. sodium nitrate One quarter kilo. nickel chloride One quarter kilo. nickel sulphate One quarter kilo. zinc chloride One quarter kilo. copper perchloride One quarter kilo. mercury nitrate	1.75	
	One quarter kilo. nickel sulphate	.63	}
	One quarter kilo. zinc chloride	95	i
	One quarter kilo, copper perchloride	. 2.25	
	One quarter kilo. mercury nitrate	1.83	1
	One quarter kilo, copper perchioride One quarter kilo, mercury nitrate. One half kilo, mercury bichloride One half kilo, mercury oxide. Twenty-five gr. silver One quarter kilo, nickel ammonium sulphate One half and one treatment from coding hydrote.	3.25	1
	One half kilo, mercury oxide	_ 4.40	1
1	One appeter bile midral are reprised and photo	_ 5.50 53	
	One hundred and twenty five or goding hydrete	2.75	1
	Two hundred and fifty or godium highlighte	30	1
	One hundred and twenty-five or phosphoric acid	63	. \
	One quarter kilo, strontium hydrate	1.75	
ì	Two hundred and fifty gr. nickel hydrate	1.5	o
k	Two hundred and fifty gr. mercury binitrate	2.5	20 /
j	Two hundred and fifty gr. tin oxide	1	.25 \
ı	Une half kilo, commercial bismuth	<i>1</i> 0	/00.0
1	One quarter kilo. copper oxide	· ·	1.13 /
2.164	One funded and America Come his march had a		2.25
9	Two hundred and fifty on moreovice obleride		3.50 2.13
Å	One helf bile. No. 1 zine		3.00
9	One kilo. No. 2 zinc		1.30
7	One quarter kilo, tin		1.88
9	Two hundred and fifty gr. commercial nickel		2.00
Á	One hundred gr. crystallized phosphoric acid		.75
No.	One hundred and twenty-five gr. reduced copper		1.38
Á	Two hundred and fifty gr. sodium amalgam		2.50
á	Twenty-five gr. lithium carbonate		.88
j	Ten gr. caprinic acid		3.70
1	Ten gr. vanadium acid		5.50
1	Firty gr. zinc socium		1.00
3	They grantlin Oxide		4.80 3.00
1	Twenty-five or nickel axide	·	1.20
3	Ten gr. aethyl cyanide		1.80
9	Twenty-five gr. silver One quarter kilo. nickel ammonium sulphate One hundred and twenty-five gr. sodium hydrate. Two hundred and fifty gr. sodium bisulphate. One hundred and twenty-five gr. phosphoric acid. One quarter kilo. strontium hydrate Two hundred and fifty gr. mercury binitrate Two hundred and fifty gr. mercury binitrate Two hundred and fifty gr. tin oxide One half kilo. commercial bismuth One quarter kilo. copper oxide One hundred and fifty gr. mercuric chloride. One hundred and fifty gr. mercuric chloride. One hundred and fifty gr. mercuric chloride. One hilf kilo. No. 1 zinc One kilo. No. 2 zinc One quarter kilo. tin Two hundred and fifty gr. commercial nickel One hundred and fifty gr. commercial nickel One hundred and twenty-five gr. reduced copper Two hundred and fifty gr. sodium amalgam Twenty-five gr. lithium carbonate Ten gr. caprinic acid Ten gr. vanadium acid Fifty gr. zinc sodium Fifty gr. zinc sodium Fifty gr. zinc sodium Twenty-five gr. nickel oxide Ten gr. asparaginic acid Ten gr. aethyl cyanide		

m 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	75 1 00
Twenty-five gr. phosphorous acid.  Five gr. thallium  Five gr. thallium carbonate  Five gr. thallium chloride.  Two and one half gr. thallium sulphate.	M.1.38
Five gr. thallium	1.00
Five gr. thallium carbonate	2.00
Five gr. thallium chloride	2.00
Two and one half gr. thallium sulphate	1.00
Two and one half gr. selenic acid	1.10
Two and one half gr. selenic acid Two and one half gr. rubidium chloride Ten gr. cinnamic acid Ten gr. cumarine Twenty-five gr. uranium nitrate Ten gr. vanedium chloride	1.50
Ten gr. cinnamic acid	3.00
Ten gr. cumarine	2.60
Twenty-five gr. uranium nitrate	1.80
Ten gr. vanadium chloride	2.50
Ten gr. vanadum choride. Ten gr. selenous acid Ten gr. methyl cyanide. Twenty-five gr. selenium. Fifty gr. bismuth Ten gr. methyl aniline Twenty-five gr. bismuth oxide Twenty-five gr. sodium metaphosphate Twenty-five gr. molybdium oxide Ten kilos. glyverine	2.60
Ten gr. methyl cyanide	2.40
Twenty-five gr. selenium	5.00
Fifty gr. bismuth	1.80
Ten gr. methyl aniline	1.20
Twenty-five gr. bismuth oxide	1.18
Twenty-five gr. sodium metaphosphate	.75
Twenty-five gr. molybdium oxide	.75 ( 1.75
Ten kilos, glycerine	20.00
Two and one half kilos, calcium chloride	2.00
Five kilos, naphthaline	10.00
Two hilos, glycerine.  Two and one half kilos, calcium chloride  Five kilos, naphthaline One half kilo, carbamide  Ten and one half kilos, iron ammonium sulphate.	22.50
Tan and one helf kilos iron ammonium sulphate	.90
Two kilos. anthracene (commercial)	12.00
Three kilos notessium forme exemide (commercial)	6.60
Three kilos. potassium ferro-cyanide (commercial) Two kilos. potassium ferro-cyanide Two kilos. benzoic acid	6.00
Two knos, potassium terro-cyaniue	24.00
Two kilos, benzoic acid	4.40
Two kilos, oxalic acid. Two and one half kilos, tin bichloride	
Two and one nair kilos, tin pichioride	5.75
One kilo. commercial napthal	2.50
One half kilo. anthracene Two and one half kilos. sodium sulphide One kilo. binitrate benzol One and one half kilos. potassium nitrite One and one half kilos. magnesium chloride	6.00
Two and one half kilos, sodium sulphide	1.50
One kilo. binitrate benzol	4.50
One and one half kilos. potassium nitrite	3.45
One and one half kilos, magnesium chloride	1.05
One half kilo, chloric acid	9.00 }
One half kilo, chloric acid	6.00
One kilo, potassium sulpho-cvanide	3.70
One half kilo, potassium ferri-cyanide	3.00
Three kilos, phenol	12.00
Three kilos, phenol One quarter kilo, cobalt nitrate	2.75
The hundred on destrine	741
Two hundred gr. chloral Two hundred gr. potassium cyanide One hundred gr. tropaeline Two hundred and fifty gr. bismuth nitrate One hundred gr. phtalic acid One hundred gr. rosalic acid One hundred gr. alegarine	6.00
Two hundred or notaggium evanide	4.00
One hundred or fromeline	2.20
Two hundred and fifty or hismuth nitrate	4.50
One hundred and into gr. bishtum intrate	1.50
One hundred on recelle soid	1.00
One handred gr. rosant actu	1.70
One hundred gr. alazarine	. 1.70
One hundred gr. methyl orange Two hundred and fifty gr. bismuth nitrate One hundred gr. pyridine One hundred gr. sodium nitro-ferri-cyanide	1.50 3.25
Two nundred and fifty gr. Dismuth nitrate	. 0.20
One hundred gr. pyridine	1.00
One hundred gr. sodium nitro-ferri-cyanide	6.50
One minored gr. scinemi scio	. 12.00
One hundred gr. dichlorhydrine	5.00
One hundred gr. dichlorhydrine Twenty gr. allylsulpho-carbamide	2.40
Ten gr. amidopropionic acid	3.00
Ten gr. phloroglucine	_ 3.00
Ten gr. amidopropionic acid Ten gr. phloroglucine Twenty gr. amidobenzoic acid Two gr. tyrosine Ten gr. alanine	3.00
Two gr. tyrosine	7.00
Ten gr. alanine	. 3.00
Two gr. leucine	_ 0,00
Ten gr. nonvlic acid	. 3.00
Ten gr. nonylic acid Thirty gr. undecylenic acid	4.50
Ten gr. staconic acid	5.00
Five gr. sarcosine	6.00
Ten er phloridzine	2.00
Ten or ostylalcohol	- 3.ŏŏ
Ten gr. phloridzine Ten gr. ostylalcohol Ten gr. aethyl benzol Twenty gr. cinnamic acid	2.70
Twenty or cinnamic acid	2.00
Ton or cinnamol	1.80
Ten gr. cinnamol Two hundred and fifty gr. tongstenic acid	5.00
TWO HOURTON OUR IIIA EI, MOREDICHIO WOR	

Married Con 123 and 1 1 1 1 2	
Twenty-nve knos. from sulphide	
Two and one half gr. palladium 10.00	
Twenty-five kilos, iron sulphide M.10.00 Two and one half gr. palladium 10.00 One half gr. lithium 10.00 Cases and packing 125.00	
Cases and packing	
public production of the public production of the public p	
M 1.005.40	
M. 1,005.40 Less rebate	
Less repate	•
M. 998.40	
Less 1½ per cent cash 14.98	
M. 983.42	\$236 40
Oratom shares on mode from E Cabillia & Co. and C A E	\$200 HU
Custom charges on goods from F. Schilling & Co. and C. A. F.	
Kahlbaum—J. R. McDonald & Co	61 30
Two thousand three hundred cubic feet gas—Oakland Gas Co	6 35
One thousand nine hundred cubic feet gas—Oakland Gas Co.	5 25
Fight hundred cubic feet cas Oakland Gas Co	2 20
Two reason on one age. Bottowen & Co	
Custom charges on goods from F. Schilling & Co. and C. A. F. Kahlbaum—J. R. McDonald & Co  Two thousand three hundred cubic feet gas—Oakland Gas Co. Due thousand nine hundred cubic feet gas—Oakland Gas Co. Eight hundred cubic feet gas—Oakland Gas Co. Expressage on one case—Patterson & Co.	50
insurance—Union Insurance Co.	<b>12</b> 79
One dozen zinc cells for battery—California Electrical Works	7 20
One imperial counter scales—Fairbanks & Hutchinson—————	25 00
Fourteen copper covers and rings—Geo. A. Tay & Co.	12 60
Two dozen 2-quart bucket covers—Geo A Tay & Co	5 00
One Sinch not Gen A Tay & Co	85
One one moled Meglin brottle Cos A Torr & Co	69
One enamered masnin kettle—Geo. A. Tay & Co	2 00
Expressage on one case—Patterson & Co.  Insurance—Union Insurance Co. One dozen zinc cells for battery—California Electrical Works One imperial counter scales—Fairbanks & Hutchinson Fourteen copper covers and rings—Geo. A. Tay & Co. Two dozen 2-quart bucket covers—Geo. A. Tay & Co. One 9-inch pot—Geo. A. Tay & Co. One enameled Maslin kettle—Geo. A. Tay & Co. Five thousand three hundred cubic feet gas—Oakland Gas Co. Two glass retorts—Justinian Caire	14 60
Two glass retorts—Justinian Caire	5 00
Twelve nests beakers—Justinian Caire	7 20
Two sheets asbestos—Justinian Caire	3 60
Twelve small evaporating dishes—Instinion Coiro	2 98
Twelve lawer overnewting dishes Justinian Coine	4 32
Twelve large evaporating dishes—Justinian Carre	4 52
brass wire—Justinian Carre	<b>88</b>
Fifty-nine feet rubber tubing—Justinian Caire	4 13
One Battersea crucible—Justinian Caire	50
One blowpipe—Justinian Caire	2 25
One lamp—Justinian Caire	3 00
'Thirty-six funnels—Justinian Caire	3 00 4 50
Thirty six healters "Tustinion Cairo	4 20
There could be a consistent of the consistent of	4 20
Three carboys muriatic acid—S. F. Chemical Works	14 60
Three carboys aqua ammonia—S. F. Gas Co.	27 60
Expressage, one barrel glassware—Patterson & Co	50
Expressage, three carboys ammonia—Patterson & Co	2 25
Expressage, eleven carbovs acid—Patterson & Co.	7 15
Expressage one box one bale—Patterson & Co	50
Expression one periode. Dettaren & Co	25
Expressage, one package—rate soil & Co.	20 05
Expressage, one package pots—Patterson & Co.	25
Expressage, one package—Patterson & Co	25
Expressage, two boxes glass—Patterson & Co.	, 50
Seven thousand cubic feet gas—Oakland Gas Co	19 25
Insurance—Union Insurance Co.	3 22
Freight on goods from F. Schilling & Co. and C. A. F. Kahl-	
hanm-William Wolf & Co.	66 02
Elevan thousand on his fact cas Oakland (las Co	30 25
Pive the word A cight hand and a while feet and Ookland Co. Co.	15.05
Great and eight fundred cubic leet gas—Jakiand Gas Co.	15 95
custom charges on ten cases—George W. Reed	4 60
Une chimney cap—Richard Chaloner	1 25
Expressage on eight cases from ship—Patterson & Co	6 00
Expressage on five cases from ship—Patterson & Co.	4 00
Expressage on three cases from ship—Patterson & Co.	3 00
Three thousand four hundred cubic feet cas-Oakland Gas Co	9 35
Nine thousand three hundred cubic feet gas_Oakland Gas Co	25 60
One brick furnace for acids. H I Whitney	41 00
One degree of accepts Con II Tour & Co	41 00
One dozen air COCKS—Creo. F1. 1 8y & CO.	4 80
one dozen imppies (snort)—Geo. H. Tay & Co.	. 60
Une dozen & T's by & Geo. H. Tay & Co.	60
Two firefronts—Geo. H. Tay & Co.	8 00
Twenty-two grate bars—Geo. H. Tav & Co.	8 80
Four grate rests—Geo. H. Tay & Co.	. 1 20
Two rings and covers—Geo. H. Tay & Co.	2 50
One No 4 digh brattle Goo H Tay & Co	1 75
One No Ground not Coo II Toy & Co.	1 75
Transfer and an a half many landless. Tracking a Co.	. 1 00
One 9-inch pot—Geo. A. Tay & Co. One enameled Maslin kettle—Geo. A. Tay & Co. Five thousand three hundred cubic feet gas—Oakland Gas Co. Two glass retorts—Justinian Caire. Two sheets asbestos—Justinian Caire Two sheets asbestos—Justinian Caire Twelve small evaporating dishes—Justinian Caire Twelve small evaporating dishes—Justinian Caire Trelve large evaporating dishes—Justinian Caire Brass wire—Justinian Caire. Fity-nine feet rubber tubing—Justinian Caire One Battersea crucible—Justinian Caire One blowpipe—Justinian Caire One lamp—Justinian Caire One lamp—Justinian Caire One lamp—Justinian Caire Thirty-six funnels—Justinian Caire Thirty-six funnels—Justinian Caire Thirty-six funnels—Justinian Caire Three carboys aqua ammonia—S. F. Chemical Works Three carboys aqua ammonia—S. F. Gas Co. Expressage, one barrel glassware—Patterson & Co. Expressage, one barrel glassware—Patterson & Co. Expressage, one box, one bale—Patterson & Co. Expressage, one package—Patterson & Co. Expressage, two boxes glass—Patterson & Co. Expressage, two boxes glass—Patterson & Co. Expressage, one package—Patterson & Co. Expressage, one package—Patterson & Co. Expressage, one package—Patterson & Co. Expressage on thousand cubic feet gas—Oakland Gas Co. Tree thousand eight hundred cubic feet gas—Oakland Gas Co. Expressage on three cases from ship—Patterson & Co. Twenty-two grate bars—Geo. H. Tay & Co. One dozen ipples (short)—Geo. H. Tay & Co. One No. 4 dish kett	16 40
Expressage on one box bottles—Patterson & Co	.  50

# ANNUAL REPORT OF THE DISBURSEMENTS—Continued.

35 96

# Putting in bibb in boiler room—J. J. Menges Ten pounds dry graphite—James G. Allen Ten thousand seven hundred cubic feet of gas—Oakland Gas Co. Two barrels alcohol—C. Jost & Co. Freight on seven cases—Southern Pacific Co. Insurance—Canton Insurance Co. Expressage on one package—Patterson & Co. Bill of James W. Queen & Co., Philadelphia: Three 1-ounce acid bottles \$1 20 Two 2-ounce acid bottles One set bell glasses. One square yard caoutchouc (sheet). Six brushes, sponge end. Three packages 10-inch filter paper. 1 50 43 1 02 Three packages 10-inch filter paper Two packages 8-inch filter paper Two packages 8-inch filter paper Two packages 10-inch filter paper Two packages 10-inch filter paper Two packages 10-inch filter paper Two packages 13-inch filter paper One quire No. 597 filter paper One package No. 589 filter paper, 5½ c.m. One package No. 589 filter paper, 7 c.m. One package No. 589 filter paper, 9 c.m. One package No. 589 filter paper, 11 c.m. One package No. 589 filter paper, 12½ c.m. One package No. 589 filter paper, 15 c.m. One package No. 590 filter paper, 5½ c.m. One package No. 590 filter paper, 7 c.m. One package No. 590 filter paper, 7 c.m. One package No. 590 filter paper, 11 c.m. One package No. 590 filter paper, 11 c.m. One package No. 590 filter paper, 12½ c.m. One package No. 590 filter paper, 15 c.m. One palladium tube, filled Two prolanges 56 1 00 9ŏ 1 10 35 75 80 2 00 Two prolanges One copper oxygen retort One iron oxygen retort. One semi-berlin oxygen retort. One set porcelain rings Two sets iron rings Twelve feet rubber tubing One glass spatula One dozen Boh. 5-inch t.t. One dozen Boh. 6-inch t.t. Three 5-inch side neck t.t. Two 6-inch side neck t.t. One 7-inch side neck t.t. 1 20 40 \$44 95 One Fritsch alkalimeter One Soxhlet lactodensimeter One large Kipp's apparatus One 1-pint Kipp's apparatus One 1-quart Kipp's apparatus 4 50 One 1-quart Kipp's apparatus One 1-gallon Kipp's apparatus One 1-gallon Kipp's apparatus One set metric weights Ten nests Griffin beakers, 0-3 Two nests Griffin beakers, 1-6 Two nests Griffin beakers, 1-8 One nest Griffin beakers, 1-10 3 10 5 20 3 40 Two nests Griffin beakers, 1-8 One nest Griffin beakers, 1-10 One nest Griffin beakers, 1-12 Ten nests Berzelius beakers, 000-0 Five nests Berzelius beakers, 0-5 Two nests Berzelius beakers, 1-6 One nest Berzelius beakers, 1-8 One nest Berzelius beakers, 1-12 From nests tall beakers 1 60 3 50 Four nests tall beakers Two nests Griffin beakers, without lip 1 60 One bell glass Two iron clamps

The state of the s	
One Bunsen clamp Two Hoffman clamps, small One Hoffman clamps, large Two Mohrs' clamps, small Two Mohrs' clamps, medium One Mohrs' clamp, large Two adjustable clamps Two fastener clamps, small Two fastener clamps, small Two fastener clamps, universal One 12-inch condenser One glass condenser	0 80
Two Hoffman clamps, small	40
One Hoffman clamp, large	25
Two Mohrs' clamps, small	20
One Mohrs' clamps, medium	30 \ 20 \
Two adjustable clamps	70
Two fastener clamps, small	40
Two fastener clamps, large	50
Two fastener clamps, universal	80
One glass condenser	1 10 1 25
Two 15-inch condensers	2 40
One 18-inch condenser	1 35
One 24-inch condenser One condenser, with tubes	2 00
One condenser, with tubes	3 00 1 25
Sixteen rose crucibles covers and tubes	6 40
Five nests crystal dishes, No. 6.	5 00
Three nests crystal dishes, No. 8.	3 75
Two nests crystal dishes, No. 10	4 00
Five R. B. P. crucibles, No. 000	60
Ten R. B. P. crucibles, No. 00	2 50
Ten R. B. P. crucibles, No. 1	3 00
Five R. B. P. crucibles, No. 2	2 00
Two R. B. P. crucibles, No. 3	1 00
One cork borer sharpener Sixteen rose crucibles, covers, and tubes Five nests crystal dishes, No. 6. Three nests crystal dishes, No. 8 Two nests crystal dishes, No. 10 Five R. B. P. crucibles, No. 00  Five R. B. P. crucibles, No. 00 Ten R. B. P. crucibles, No. 0 Ten R. B. P. crucibles, No. 1 Five R. B. P. crucibles, No. 1 Five R. B. P. crucibles, No. 1 Five R. B. P. crucibles, No. 2 Two R. B. P. crucibles, No. 3 Two R. B. P. crucibles, No. 3 Two R. B. P. crucibles, No. 4 One R. B. P. crucible, No. 5 One unglazed crucible, 100 c.c.m. One unglazed crucible, 500 c.c.m. Two Wessler cylinders, 500 c.c.m. Two Wessler cylinders, 100 c.c.m. One tresinus desiccator.	1 20
One unplaced crucible 100 c.c.m	25
One unglazed crucible, 500 c.c.m.	75
Two Wessler cylinders, 50 c.c.m.	1 00 1
Two Wessler cylinders, 100 c.c.m.	1 50
Une tresinus desiccator.	3 00
Five R. R. P. evaporating dishes, No. 00	50 75
Five R. B. P. evaporating dishes, No. 0	1 00
Two Wessler cylinders, 100 c.c.m. One tresinus desiccator. Five R. B. P. evaporating dishes, No. 000 Five R. B. P. evaporating dishes, No. 0 Five R. B. P. evaporating dishes, No. 0 Five R. B. P. evaporating dishes, No. 1 Five R. B. P. evaporating dishes, No. 2 Three R. B. P. evaporating dishes, No. 3 Two R. B. P. evaporating dishes, No. 3 Two R. B. P. evaporating dishes, No. 4 Two R. B. P. evaporating dishes, No. 5 One R. B. P. evaporating dishes, No. 6 Five semi-berlin evaporating dishes, No. 1 Five semi-berlin evaporating dishes, No. 2 Five semi-berlin evaporating dishes, No. 2 Five semi-berlin evaporating dishes, No. 3 Two semi-berlin evaporating dishes, No. 3 Two semi-berlin evaporating dishes, No. 4 Five semi-berlin evaporating dishes, No. 5 One nest dishes	1 50
Five R. B. P. evaporating dishes, No. 2	1 75
Three R. B. P. evaporating dishes, No. 3	1 20 90
Two R. B. P. evaporating dishes, No. 4	1 10
One R. B. P. evaporating dish. No. 6	75
Five semi-berlin evaporating dishes, No. 1	1 00
Five semi-berlin evaporating dishes, No. 2	1 25
Two semi-berlin evaporating dishes, No. 3	1 50 70
Five semi-berlin evaporating dishes, No. 5	2 00
One nest dishes	1 00
Une nest disnes.	1 10
One nest dishes	1 10 2 00
One dropping bottle	2 00
Five packages 8-inch filter paper	1 30
One quire Japanese filter paper	25
Six burette tips	25
Two pounds square tubing	1 50 60
One pound flat tubing	75
Three pounds Bohemian tubing	3 00
Three small tripods	1 50
Three medium tripods	1 80 2 25
One liviviating jar one nint	2 20 20
One lixiviating jar, one and one half pints	25
One lixiviating jar, two pints.	30
One lixiviating jar, three pints	40
Une lixiviating jar, four pints	50
One & ounce Tiebig retort	80 50
One 16-ounce Liebig retort	75
One nest dishes One nest dishes One dropping bottle Five packages 8-inch filter paper One quire Japanese filter paper Six burette tips Two pounds square tubing One pound flat tubing One pound flat tubing Three pounds Bohemian tubing Three small tripods Three medium tripods Three large tripods One lixiviating jar, one pint One lixiviating jar, one pint One lixiviating jar, two pints One lixiviating jar, two pints One lixiviating jar, four pints One lixiviating jar, four pints One lose Squamed labels One 8-ounce Liebig retort One 16-ounce Liebig retort Three pounds rubber stoppers One pound rubber stoppers One pound rubber stoppers (perforated)	8 25
One pound rubber stoppers (perforated)	2 75

Three pounds black rubber tubing Two deflagrating spoons Two horn spoons One glass spoon (small) One glass spoon (large). One new torm stopcock One three-way stopcock One burette support. One condenser support One funnel support Five 2-ring retort stands Three 4-ring retort stands One 4-ring retort stand One squibbs support Two plain iron tripods One No. 2959 iron tripod One No. 2959 iron tripod One No. 2950 iron tripod One No. 2950 iron tripod Two weighing tubes	1 2 8 1 1 2 2 1 8	45 35 25 30 50 50	
· · · · · · · · · · · · · · · · · · ·	\$227 56		
One set troy weights One set troy weights Two packages 15-inch filter paper One package 15-inch filter paper Two packages gray filter paper Two packages gray filter paper	\$3 1 1 1	00 00 10 65 00 20	\$170 74 
Less 10 per cent  Twelve Bunsen burners. One Bunsen burner (Queen's) Three burner attachments One burner tripod. Twenty packages 3-inch filter paper Thirty packages 4-inch filter paper Fifty packages 5-inch filter paper Fifty packages 6-inch filter paper Fifty packages 6-inch filter paper Five sets T. T. (12 each) Two dozen T. T., side tube	\$5 1 2 4 10 11 3	79 40 00 75 25 00 80 00	7 16
Less 30 per cent  Fifteen dozen reagent bottles, at \$1 75  Three and three quarters dozen reagent bottles, at \$2  One and one sixth dozen reagent bottles, at \$2 25  Three and two thirds dozen reagent bottles, at \$3 25  Seven and two thirds dozen reagent bottles, at \$1 50  One and one twelfth dozen reagent bottles, at \$1 35  Eight and one fourth dozen reagent bottles, at \$1 35  Five sixths dozen reagent bottles, at \$1	\$26 7 2 11 11 1 11 3	19 25 50 63 92 50 46 14 34	28 46
Less 5 per cent  Ten nests Griffin beakers, 000-0 One earthen retort One sacchrometer One §-inch stopcock Boxing and packing Two dozen 4½-inch evaporating dishes—California Pottery C. Co. Two dozen 6-inch evaporating dishes—California Pottery C. Co. One half dozen 8-inch evaporating dishes—California Pott T. C. Co. Oiling desk and shelves—S. Wakeham Two carboys muriatic acid—San Francisco Chemical Wor	and and	79 T.	71 95 2 50 1 35 1 75 1 25 15 00 6 00 8 00 3 00 2 00 8 29

One hydrogen sulphide apparatus—J. W. Queen & Co. One calcium chloride jar—J. W. Queen & Co. Two cork knives—J. W. Queen & Co. Twelve dropping bottles—J. W. Queen & Co. One pint gas bottle—J. W. Queen & Co. Seven ounces beads—J. W. Queen & Co. Two pounds milk glass rod—J. W. Queen & Co. Twelve ½-ounce glass jars—J. W. Queen & Co. Twelve 1-ounce glass jars—J. W. Queen & Co. Twelve 2-ounce glass jars—J. W. Queen & Co. Twelve 4-ounce glass jars—J. W. Queen & Co. Six 8-ounce glass jars—J. W. Queen & Co. Three 16-ounce glass jars—J. W. Queen & Co. One retort clark—J. W. Queen & Co. Two sets iron rings—J. W. Queen & Co. Two sets iron rings—J. W. Queen & Co.	\$4 00 1 90 50 1 75 1 25 70 1 20 75 85 1 15 1 50 1 08 740 2 00 1 20	
Less 25 per cent	\$20 98 5 <b>2</b> 5	<b>\$</b> 15 <b>7</b> 4
One 50-c.c. burette—J. W. Queen & Co. Two spring clamps—J. W. Queen & Co. Two universal clamps—J. W. Queen & Co. Two Hoffman clamps—J. W. Queen & Co. Two Bunsen clamps—J. W. Queen & Co. One brass mortar—J. W. Queen & Co. Four prolongs—J. W. Queen & Co. Two bone spoons—J. W. Queen & Co. One three-way stopcock—J. W. Queen & Co. One retort stand and rings—J. W. Queen & Co. One retort stand and rings—J. W. Queen & Co. Three iron tripods—J. W. Queen & Co.	\$4 00 1 50 1 50 1 60 1 50 5 00 60 35 1 50 90 1 25 1 00	\$10.1#
Less 20 per cent	\$30 70	10.50
Two packages filter paper—J. W. Queen & Co. One platinum cone—J. W. Queen & Co. One platinum spatula—J. W. Queen & Co. One platinum sponge—J. W. Queen & Co. One platinum boat—J. W. Queen & Co. One ureometer doremus—J. W. Queen & Co.	\$1 40 3 00 3 90 1 71 5 16 2 00	16 56
Less 10 per cent	\$17 17 1 72	
Six dozen caps for reagents, 4-ounce—J. W. Queen & Co Three dozen caps for reagents, 8-ounce—J. W. Queen & Co One dozen caps for reagents, 16-ounce—J. W. Queen & Co One dozen caps for reagents, 32-ounce—J. W. Queen & Co Five dozen caps for reagents, 24-ounce—J. W. Queen & Co One platinum cone—J. W. Queen & Co One glass spatula—J. W. Queen & Co	\$3 00 1 95 70 75 3 00 1 35 10	15 45
Boxing and packing—J. W. Queen & Co.  Gas for May—Oakland Gas Co.  Expressage on two barrels alcohol—Patterson & Co.  Expressage on five cases, two boxes—Patterson & Co.  Expressage on two carboys acid—Patterson & Co.  Freight on one case glassware—Southern Pacific Co.  One analytical balance—Justinian Caire  One analytical balance—Justinian Caire  One set weights—Justinian Caire  Twelve riders—Justinian Caire	\$114 00 125 00 18 00 3 60	11 45 1 75 28 35 2 50 3 00 1 50 7 90
Less 15 per cent	\$260 60 39 09	991 51
Two hundred and sixty grams platinum—Justinian Caire One hundred and twenty pounds aqua ammonia—San Fr Gaslight Co.	ancisco	221 51 101 40 9 60

Less 25 per cent			_
Chinan Caire   191	Francisco Gaslight Co	\$26 70	
Case	Unian Caire \$28 09 One eighth tubing, white and black—Justinian Caire 191 One gasoline furnace—Justinian Caire 23 40		
Less	One flask quicksilver—Justinian Caire 47 50 Assorted corks—Justinian Caire 15 00		y M
One stove pot—tec. H. Tay & Co. 25 0 One convex kettle—Geo. H. Tay & Co. 26 9 One lipped kettle 14—Geo. H. Tay & Co. 44 One lipped kettle 124—Geo. H. Tay & Co. 75 One lipped kettle 24—Geo. H. Tay & Co. 100 Four Winds S. pans—Geo. H. Tay & Co. 75 One lipped kettle 24—Geo. H. Tay & Co. 75 One lipped kettle 24—Geo. H. Tay & Co. 75 Three miner's cups—Geo. H. Tay & Co. 75 Three miner's cups—Geo. H. Tay & Co. 10 85 Three miner's cups—Geo. H. Tay & Co. 619 One kitchen dipper—Geo. H. Tay & Co. 62 One Windsor dipper—Geo. H. Tay & Co. 65 One stove kettle—Geo. H. Tay & Co. 10 One wood sawing machine—Hawley Bros. Hardware Co. 175 One wood sawing machine—Hawley Bros. Hardware Co. 175 One horse tread power—Hawley Bros. Hardware Co. 175 One bone 5-quire ex. Denny ledger—Dutton & Partridge 115 One four approach of the Partridge 115 One ream manilla letter—Dutton & Partridge 115 One ream smanilla letter—Dutton & Partridge 115 One ream smanilla letter—Dutton & Partridge 115 One ream smanilla letter—Dutton & Partridge 115 One four quart violet ink—Dutton & Partridge 115 One four quart violet ink—Dutton & Partridge 115 One ream Stay Smanlla—Dutton & Partridge 115 One one one stylographic ink—Dutton & Partridge 115 One one one manilla letter—Dutton & Partridge 115 One one penholders—Dutton & Partridge 115 One power—Dutton & Partridge 115 One box Excelsior wax—Dutton & Partridge 115 One box McGill's fasteners, No. 3—Dutton & Partridge 15 One box McGill's fasteners, No. 4—Dutton & Partridge 15 One box McGill's fasteners, No. 4—Dutton & Partridge 15 One box McGill's fasteners, No. 4—Dutton & Partridge 15 One box McGill's fasteners, No. 4—Dutton & Partridge 15 One box McGill's fasteners, No. 4—Dutton & Partridge 15 One box McGill's fasteners, No. 4—Dutton & Partridge 1	Less50	117 20	
Two child's muga—Geo. H. Tay & Co. 76 Three miner's cups—Geo. H. Tay & Co. 187 Four rice boilers—Geo. H. Tay & Co. 10 85 Three buckets—Geo. H. Tay & Co. 619 One kitchen dipper—Geo. H. Tay & Co. 82 One Windsor dipper—Geo. H. Tay & Co. 63  Less 33\( \) per cent 910 76  Six cast-iron bowls—Geo. H. Tay & Co. 63  Less 33\( \) per cent 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 76  One stove kettle—Geo. H. Tay & Co. 10 76  Salaries for year ending June 30, 1889  To Department of Lick Observatory.  One wood sawing machine—Hawley Bros. Hardware Co. 175 70 One horse tread power—Hawley Bros. Hardware Co. 175 70 One horse tread power—Hawley Bros. Hardware Co. 175 70 One horse tread power—Hawley Bros. Hardware Co. 175 75 One 5-quire ex. Denny ledger—Dutton & Partridge 90 Ten reams manilla note—Dutton & Partridge 90 Ten reams manilla letter—Dutton & Partridge 90 Ten reams manilla letter—Dutton & Partridge 11 50 One ream manilla letter—Dutton & Partridge 11 50 One fourth quart violet ink—Dutton & Partridge 11 50 One or onth quart violet ink—Dutton & Partridge 11 50 One or onth quart violet ink—Dutton & Partridge 11 50 One or onth quart violet ink—Dutton & Partridge 11 50 One or onth quart violet ink—Dutton & Partridge 11 50 One or onth quart violet ink—Dutton & Partridge 11 50 One one onth copying ink—Dutton & Partridge 15 50 One box Excelsior wax—Dutton & Partridge 15 50 One box McGill's fasteners, No. 3—Dutton & Partridge 15 50 One box McGill's fasteners, No. 4—Dutton & Partridge 15 50 One box McGill's fasteners, No. 4—Dutton & Partridge 15 50 One box Dutton & Partridge 15		12 06	
Two child's muga—Geo. H. Tay & Co. 75 Three miner's cups—Geo. H. Tay & Co. 187 Four rice boilers—Geo. H. Tay & Co. 10 85 Three buckets—Geo. H. Tay & Co. 619 One kitchen dipper—Geo. H. Tay & Co. 82 One Windsor dipper—Geo. H. Tay & Co. 83  Less 33\(^1_2\) per cent 95  Six cast-iron bowls—Geo. H. Tay & Co. 63  Less 33\(^1_3\) per cent 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 00 Three wood stands—Geo. H. Tay & Co. 450 One stove kettle—Geo. H. Tay & Co. 10 00 Salaries for year ending June 30, 1889  To Department of Lick Observatory.  One wood sawing machine—Hawley Bros. Hardware Co. 175 00 One horse tread power—Hawley Bros. Hardware Co. 175 00 One horse tread power—Hawley Bros. Hardware Co. 175 00  Less 25 per cent 62 60  Cartage on above—Hawley Bros. Hardware Co. 75 One 5-quire ex. Denny ledger—Dutton & Partridge 90 Ten reams manilla note—Dutton & Partridge 90 Ten reams manilla letter—Dutton & Partridge 11 50 One ream manilla letter—Dutton & Partridge 11 50 One fourth quart violet ink—Dutton & Partridge 11 50 One round to prove 11 50 One fourth quart violet ink—Dutton & Partridge 11 50 One quart copying ink—Dutton & Partridge 11 50 One quart copying ink—Dutton & Partridge 11 50 One fourth quire blotting paper—Dutton & Partridge 15 50 One box Excelsior wax—Dutton & Partridge 17 50 One box McGill's fasteners, No. 3—Dutton & Partridge 17 50 One box Excelsior wax—Dutton & Partridge 17 50 One box Dutton	One convex kettle—Geo. H. Tay & Co. 2 69 One lipped kettle 14—Geo. H. Tay & Co. 44		
Two child's muga—Geo. H. Tay & Co. 75 Three miner's cups—Geo. H. Tay & Co. 187 Four rice boilers—Geo. H. Tay & Co. 10 85 Three buckets—Geo. H. Tay & Co. 619 One kitchen dipper—Geo. H. Tay & Co. 82 One Windsor dipper—Geo. H. Tay & Co. 83  Less 33\(^1_2\) per cent 95  Six cast-iron bowls—Geo. H. Tay & Co. 63  Less 33\(^1_3\) per cent 10 76  Six cast-iron bowls—Geo. H. Tay & Co. 10 00 Three wood stands—Geo. H. Tay & Co. 450 One stove kettle—Geo. H. Tay & Co. 10 00 Salaries for year ending June 30, 1889  To Department of Lick Observatory.  One wood sawing machine—Hawley Bros. Hardware Co. 175 00 One horse tread power—Hawley Bros. Hardware Co. 175 00 One horse tread power—Hawley Bros. Hardware Co. 175 00  Less 25 per cent 62 60  Cartage on above—Hawley Bros. Hardware Co. 75 One 5-quire ex. Denny ledger—Dutton & Partridge 90 Ten reams manilla note—Dutton & Partridge 90 Ten reams manilla letter—Dutton & Partridge 11 50 One ream manilla letter—Dutton & Partridge 11 50 One fourth quart violet ink—Dutton & Partridge 11 50 One round to prove 11 50 One fourth quart violet ink—Dutton & Partridge 11 50 One quart copying ink—Dutton & Partridge 11 50 One quart copying ink—Dutton & Partridge 11 50 One fourth quire blotting paper—Dutton & Partridge 15 50 One box Excelsior wax—Dutton & Partridge 17 50 One box McGill's fasteners, No. 3—Dutton & Partridge 17 50 One box Excelsior wax—Dutton & Partridge 17 50 One box Dutton	One lipped kettle 20—Geo. H. Tay & Co. 75		
Four rice boliers—Geo. H. Tay & Co	Four Winds S. pans—Geo. H. Tay & Co. 380		,
Four rice boliers—Geo. H. Tay & Co	Two child's mugs—Geo. H. Tay & Co. 75 Three miner's cups—Geo. H. Tay & Co. 187		
Cartage on above—Hawley Bros. Hardware Co.   150	Four rice bollers—Geo. H. Tav & Co 10 85		
Less 33\frac{1}{2} per cent	One kitchen dipper—Geo. H. Tay & Co. 82 One Windsor dipper—Geo. H. Tay & Co. 63		: : 9
Six cast-iron bowls—Geo. H. Tay & Co.   1 00	Less 33 <sup>1</sup> per cent \$32 29 10 76	01 59	
Three wood stands—Geo. H. Tay & Co.   4 60	Six cast-iron bowls—Geo. H. Tay & Co.	00 1	
Salaries for year ending June 30, 1889	Three wood: stands—Geo. H. Tay & Co. One stove kettle—Geo. H. Tay & Co. Gas—Oakland Gas Co.	4 50 1 00 34 10	
To Department of Lick Observatory.   One wood sawing machine—Hawley Bros. Hardware Co \$75 00 One horse tread power—Hawley Bros. Hardware Co 175 00			
One wood sawing machine—Hawley Bros. Hardware Co \$75 00 One horse tread power—Hawley Bros. Hardware Co 175 00  Less 25 per cent 62 50  Cartage on above—Hawley Bros. Hardware Co 75 One 5-quire ex. Denny ledger—Dutton & Partridge 425 One half dozen cap flexible index—Dutton & Partridge 750 Ten reams manilla note—Dutton & Partridge 750 Ten reams manilla letter—Dutton & Partridge 1150 One ream manilla letter—Dutton & Partridge 1150 One ream manilla ledger—Dutton & Partridge 160 One fourth quart violet ink—Dutton & Partridge 160 One fourth quire blotting paper—Dutton & Partridge 175 Two dozen stylographic ink—Dutton & Partridge 100 One fourth quire blotting paper—Dutton & Partridge 175 Two dozen penholders—Dutton & Partridge 175 Two dozen penholders—Dutton & Partridge 175 One box Excelsior wax—Dutton & Partridge 125 One box McGill's fasteners, No. 3—Dutton & Partridge 125 One box McGill's fasteners, No. 4—Dutton & Partridge 150 Two bean ink stamp ribbon—Dutton & Partridge 150 Two hectograph stamp ribbon—Dutton & Partridge 150 Troe housand and seventy-Tutton & Partridge 150 Troe housand and seventy-Tuton & Partridge 150 Troe tons barley hay—J. Archambeault 45 00 One thousand pounds oats—J. Archambeault 45 00 One thousand pounds oats—J. Archambeault 100			,
Less 25 per cent			
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One fourth quart violet ink—Dutton & Partridge	Ten reams manilla letter—Dutton & Partridge	7 50 11 50	
One ream 24x36 manilla—Dutton & Partridge	One ream manilla ledger—Dutton & Partridge	1 60 1 15	• •
One quart copying ink—Dutton & Partridge.         1 00           One fourth quire blotting paper—Dutton & Partridge.         1 75           Two dozen penholders—Dutton & Partridge.         50           One box Excelsior wax—Dutton & Partridge.         1 25           One half dozen packages pins—Dutton & Partridge.         50           One box McGill's fasteners, No. 3—Dutton & Partridge.         35           One box McGill's fasteners, No. 4—Dutton & Partridge.         40           Two bean ink stamp ribbon—Dutton & Partridge.         1 50           Two purple ink stamp ribbon—Dutton & Partridge.         1 50           Two hectograph stamp ribbon—Dutton & Partridge.         1 50           Five balls twine—Dutton & Partridge.         2 00           One dozen toilet paper—Dutton & Partridge.         2 00           One dozen toilet paper—Dutton & Partridge.         1 85           Drayage to depot—Dutton & Partridge.         1 85           Drayage to depot—Dutton & Partridge.         2 31           Two thousand and seventy-five pounds barley—J. Archambeault.         22 31           One thousand pounds oats—J. Archambeault.         20 00           Two hars eastile sana—J. Archambeault.         20 00           Two hars eastile sana—J. Archambeault.         20 00	One ream 24x36 manilla—Dutton & Partridge	6 00	* 1
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One box Excelsior wax—Dutton & Partridge         1 25           One half dozen packages pins—Dutton & Partridge         50           One box McGill's fasteners, No. 3—Dutton & Partridge         35           One box McGill's fasteners, No. 4—Dutton & Partridge         40           Two bean ink stamp ribbon—Dutton & Partridge         1 50           Two purple ink stamp ribbon—Dutton & Partridge         1 50           Two hectograph stamp ribbon—Dutton & Partridge         1 50           Five balls twine—Dutton & Partridge         2 00           One dozen toilet paper—Dutton & Partridge         1 85           Drayage to depot—Dutton & Partridge         1 85           Drayage to depot—Dutton & Partridge         50           Two thousand and seventy-five pounds barley—J. Archambeault         22 31           Three tons barley hay—J. Archambeault         45 00           One thousand pounds oats—J. Archambeault         20 00           Two hars eastile sana—J. Archambeault         20 00           Two hars eastile sana—J. Archambeault         20 00	One fourth quire blotting paper—Dutton & Partridge	1 75	1:
One box McGill's fasteners, No. 4—Dutton & Partridge	One how Excelsion way Dutton & Partridge		
One box McGill's fasteners, No. 4—Dutton & Partridge	one box Execusion wax Duvon & Latings.	1 25	•
Two purple ink stamp ribbon—Dutton & Partridge       1 50         Two hectograph stamp ribbon—Dutton & Partridge       1 50         Five balls twine—Dutton & Partridge       72         Three gross pens—Dutton & Partridge       2 00         One dozen toilet paper—Dutton & Partridge       1 85         Drayage to depot—Dutton & Partridge       50         Two thousand and seventy-five pounds barley—J. Archambeault       22 31         Three tons barley hay—J. Archambeault       45 00         One thousand pounds oats—J. Archambeault       20 00         Two bars eastile soap—J. Archambeault       1 00	One half dozen packages pins—Dutton & Partridge One box McGill's fasteners, No. 3—Dutton & Partridge	1 25	
Five balls twine—Dution & Partridge         72           Three gross pens—Dutton & Partridge         2 00           One dozen toilet paper—Dutton & Partridge         1 85           Drayage to depot—Dutton & Partridge         50           Two thousand and seventy-five pounds barley—J. Archambeault         22 31           Three tons barley hay—J. Archambeault         45 00           One thousand pounds oats—J. Archambeault         20 00           Two bars eastile soap—J. Archambeault         1 00	One half dozen packages pins—Dutton & Partridge One box McGill's fasteners, No. 3—Dutton & Partridge One box McGill's fasteners, No. 4—Dutton & Partridge	1 25 50 35 40	4
Three gross pens—Dutton & Partridge	One half dozen packages pins—Dutton & Partridge One box McGill's fasteners, No. 3—Dutton & Partridge One box McGill's fasteners, No. 4—Dutton & Partridge Two bean ink stamp ribbon—Dutton & Partridge Two purple ink stamp ribbon—Dutton & Partridge	1 25 50 35 40 1 50 1 50	S. Sec.
Drayage to depot—Dutton & Partridge	One half dozen packages pins—Dutton & Partridge.  One box McGill's fasteners, No. 3—Dutton & Partridge.  One box McGill's fasteners, No. 4—Dutton & Partridge.  Two bean ink stamp ribbon—Dutton & Partridge.  Two purple ink stamp ribbon—Dutton & Partridge.  Two hectograph stamp ribbon—Dutton & Partridge.	1 25 50 35 40 1 50 1 50 1 50 72	20,00 36 % s. c.
One thousand pounds oats—J. Archambeault	One half dozen packages pins—Dutton & Partridge. One box McGill's fasteners, No. 3—Dutton & Partridge. One box McGill's fasteners, No. 4—Dutton & Partridge. Two bean ink stamp ribbon—Dutton & Partridge. Two purple ink stamp ribbon—Dutton & Partridge. Two hectograph stamp ribbon—Dutton & Partridge. Tive balls twine—Dutton & Partridge. Three gross pens—Dutton & Partridge.	1 25 50 35 40 1 50 1 50 1 50 72 2 00	
One thousand pounds oats—J. Archambeault	One half dozen packages pins—Dutton & Partridge.  One box McGill's fasteners, No. 3—Dutton & Partridge.  One box McGill's fasteners, No. 4—Dutton & Partridge.  Two bean ink stamp ribbon—Dutton & Partridge.  Two purple ink stamp ribbon—Dutton & Partridge.  Two hectograph stamp ribbon—Dutton & Partridge.  Five balls twine—Dutton & Partridge.  Three gross pens—Dutton & Partridge.  One dozen toilet paper—Dutton & Partridge.	1 25 50 35 40 1 50 1 50 1 50 2 20 1 85 50	And the second s
The state of the s	One half dozen packages pins—Dutton & Partridge. One box McGill's fasteners, No. 3—Dutton & Partridge. One box McGill's fasteners, No. 4—Dutton & Partridge. Two bean ink stamp ribbon—Dutton & Partridge. Two purple ink stamp ribbon—Dutton & Partridge. Two hectograph stamp ribbon—Dutton & Partridge. Five balls twine—Dutton & Partridge. Three gross pens—Dutton & Partridge. Three gross pens—Dutton & Partridge. Drayage to depot—Dutton & Partridge. Two thousand and seventy-five pounds barley—J. Archambeault Three tons barley hay—J. Archambeault.	1 25 50 35 40 1 50 1 50 2 200 1 85 200 22 31 45 00	And the second s
Ten tin candlesticks—J. Archambeault	One half dozen packages pins—Dutton & Partridge. One box McGill's fasteners, No. 3—Dutton & Partridge. One box McGill's fasteners, No. 4—Dutton & Partridge. Two bean ink stamp ribbon—Dutton & Partridge. Two purple ink stamp ribbon—Dutton & Partridge. Two hectograph stamp ribbon—Dutton & Partridge. Five balls twine—Dutton & Partridge. Three gross pens—Dutton & Partridge. One dozen toilet paper—Dutton & Partridge. Drayage to depot—Dutton & Partridge. Two thousand and seventy-five pounds barley—J. Archambeault Three tons barley hay—J. Archambeault. One thousand pounds oats—J. Archambeault. Two hars castile soap—J. Archambeault.	1 25 50 35 40 1 50 1 50 72 2 00 1 85 22 31 45 00 20 00	The second secon
	One half dozen packages pins—Dutton & Partridge. One box McGill's fasteners, No. 3—Dutton & Partridge. One box McGill's fasteners, No. 4—Dutton & Partridge. Two bean ink stamp ribbon—Dutton & Partridge. Two purple ink stamp ribbon—Dutton & Partridge. Two hectograph stamp ribbon—Dutton & Partridge. Tive balls twine—Dutton & Partridge. Three gross pens—Dutton & Partridge. Three gross pens—Dutton & Partridge. Drayage to depot—Dutton & Partridge. Two thousand and seventy-five pounds barley—J. Archambeault Three tons barley hay—J. Archambeault.	1 25 50 35 40 1 50 1 50 72 2 00 1 85 22 31 45 00 20 00	

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Warrang ahanga daning Tama T Anaharahasala	#E #0
Express charges during June—J. Archambeaut	<b>\$</b> 5 <b>60</b>
Four Herald box stoves—Holbrook, Merrill & Stetson	22 00
Two Ruck stowes and furniture Holbrook Marrill & Stateon	68 26
Two back stoves and farmiture—Holbrook, Merril & Stelson	
Four York Gem stoves—Holbrook, Merrill & Stetson	74 00
Case and cartage Holbrook Morrill & Stateon	1 50
Express charges during June—J. Archambeault—Four Herald box stoves—Holbrook, Merrill & Stetson—Two Buck stoves and furniture—Holbrook, Merrill & Stetson—Four York Gem stoves—Holbrook, Merrill & Stetson—Case and cartage—Holbrook, Merrill & Stetson—Cleaning five astronomical clocks and five chronometers—F. H.	1 50
Cleaning five astronomical clocks and five chronometers—F. H.	
McConnell Railway and stage fare—F. H. McConnell Repairing and furnishing poles and material for the reconstruction of Observatory telegraph line to San José—California Electrical Works	25 00
D. T. T. J. C. T. T. T. D. C. T.	
Kallway and stage fare—F. H. McConnell	7 50
Renairing and furnishing noles and material for the reconstruc-	
to the reconstruction of the reconstruction of the reconstruction	
tion of Observatory telegraph line to San Jose—California Elec-	
trical Works Teaming during June—J. Wandell Three hundred and two pounds barbed wire fencing—Hunting- ton-Hopkins Co.	100 00
Marriage dynamics Towns T Was Jall	
reaming during June—J. wandell	53 75
Three hundred and two pounds harbed wire fencing—Hunting.	
ten Hanking Or	15 10
ton-Hopkins Co.	15 10
Three hundred ft. galvanized netting—Huntington-Hopkins Co. )	4 13
Four hundred and fifty foot calvenized notting Unstington	
ton-Hopkins Co.  Three hundred ft, galvanized netting—Huntington-Hopkins Co. Four hundred and fifty feet galvanized netting—Huntington-Huntington-	
Hopkins Co.	6 19
Twalve nounds colvenized steples Huntington Harling Co	1 20
weive pounds garvanized staples—Huntington-Hopkins Co.	1 20
One dozen g-inch felt print pads—S. C. Partridge	35
One dozen sinch felt print pads—S. C. Partridge	80
One down & inch felt mint and a G C Destriction	1 7
one dozen 10-inch left print pads—S. C. Partridge	1 75
One half dozen 44-inch felt print pads—S. C. Partridge	1 50
Two hoves Metabless relich I H Moise	ĩ 00
Four hundred and fifty feet galvanized netting—Huntington—Hopkins Co.  Twelve pounds galvanized staples—Huntington-Hopkins Co. One dozen \$\frac{2}{2}\$-inch felt print pads—S. C. Partridge One dozen \$\frac{2}{2}\$-inch felt print pads—S. C. Partridge One dozen \$\frac{2}{2}\$-inch felt print pads—S. C. Partridge One half dozen \$\frac{1}{2}\$-inch felt print pads—S. C. Partridge One half dozen \$\frac{1}{2}\$-inch felt print pads—S. C. Partridge Two boxes Matchless polish—L. H. Moise One consecutive dater—C. A. Klinkner & Co. Four No. 85 thermometers—Standard Thermometer Co. One rubber stamp—C. A. Klinkner & Co. Fifty galvanized fire buckets—W. W. Montague & Co. One thousand feet 1x4 T. and G. B.—Santa Clara Lumber Co. One thousand feet 1x12 mer. surfaced—Santa Clara Lumber Co. Five hundred six-foot pickets—Santa Clara Lumber Co. Ninety-one 1x8x16—Santa Clara Lumber Co. Six kitchen brooms—J. Archambeault.  Three scrubbing brushes—J. Archambeault.	1 00
One consecutive dater—C. A. Klinkner & Co.	5 00
Four No 85 thermometers Standard Thermometer Co	10 00
Four No. 30 thermometers—Standard Thermometer Co.	10 00
One rubber stamp—C. A. Klinkner & Co.	1 50
Fifty galvanized fire buckets W W Montagne & Co	18 00
They garvanized his blockets—W. W. Hontagte & Co.	10 00
One thousand feet 1x4 T. and G. B.—Santa Clara Lumber Co	37 50
One thousand feet 1x12 mer surfaced—Santa Clara Lumber Co.	26 50
Ties had a de fast de fast Class Tour de Guille	15 00
rive numered six-root pickets—Santa Clara Lumber Co	15 00
Ninety-one 1x8x16—Santa Clara Lumber Co.	22 50
Six bitchen brooms T Ambambanit	-0.00
Six kitchen brooms—J. Archambeautt	22 50 2 00 1 00
Three scrubbing brushes— Archambeault	1 00
Two feether dustons T Archembooult	4.00
I wo leather dusters—J. Archambeautt	4 00
Two feather dusters—J. Archambeault	1 50
Three dust nane and brushes_I Archambaguit	2.25
Three day pains and brushes 5. Hierambeauty	= 20
One box yellow washing soap—J. Archambeault	5 W
Twelve whick brooms—I Archambeault	1 50 2 25 5 00 2 00 2 50 3 00 3 00 1 80
The release of the state of the	5 50
Two galvanized from palis—J. Archambeaut	2 90
Three dozen cakes sapolio—I. Archambeault	3 00
One helf how send goes I Archambeault	9.00
one han box sand soap—j. Archambeaut	9 00
Two sponges—J. Archambeault	1 80
One half dozen lamp alconomy I Amhambanult	1 95
one han dozen tamp cleaners—J. Archambeautt	1 20
Twelve yards toweling—J. Archambeault	2 16
Carnet sweener T Archambaguit	1 25 2 16 3 75
Out to the state of the state o	00.00
One nundred and fifty gallons Starlight oil—Yates & Co	30 00
Cartage on Starlight oil—Vates & Co.	50
The state of the s	5 00
Twenty-nve sheets 20x24 cardboard—Oscar Foss	9 00
Twenty-five sheets 16x20 cardboard—Oscar Foss	3 00
Fifty shoots 14x16 aardboard Oscar Fors	5.00
Find sheets 14x10 cardboard—Oscar Foss	3 00
Two nundred sheets Iuxiz cardboard-Uscar Foss	9 00
Two hundred sheets 8x10 cardboard—Oscar Foss	5.50
Rive 1 mound by the mall and a stack Orace Flore	9 00
Ninety-one 1x8x16—Santa Clara Lumber Co. Six kitchen brooms—J. Archambeault. Three scrubbing brushes—J. Archambeault. Two feather dusters—J. Archambeault. Two feather dusters—J. Archambeault. Three dust pans and brushes—J. Archambeault. Three dust pans and brushes—J. Archambeault. Twelve whisk brooms—J. Archambeault. Two galvanized iron pails—J. Archambeault. Three dozen cakes sapolio—J. Archambeault. Three dozen cakes sapolio—J. Archambeault. Three dozen cakes sapolio—J. Archambeault. One half box sand soap—J. Archambeault. One half dozen lamp cleaners—J. Archambeault. Twelve yards toweling—J. Archambeault. Carpet sweeper—J. Archambeault. One hundred and fifty gallons Starlight oil—Yates & Co. Cartage on Starlight oil—Yates & Co. Twenty-five sheets 20x24 cardboard—Oscar Foss. Two hundred sheets 16x20 cardboard—Oscar Foss. Two hundred sheets 10x12 cardboard—Oscar Foss. Two hundred sheets 8x10 cardboard—Oscar Foss. Two hundred sheets 8x10 cardboard—Oscar Foss. Two hundred sheets 10x12 cardboard—Oscar Foss. Two lunce bottle pyro. developer, No. 1—Oscar Foss. One 16-ounce bottle pyro. developer, No. 2—Oscar Foss. Two dozen 3x4 transparency plates—Oscar Foss. Two dozen 4x5 transparency plates—Oscar Foss Expense of J. E. Keeler inspecting earthquake instruments in California Custom House charges on one case instruments—John H. Boden.	5 00 9 00 5 50 3 00
One 16-ounce bottle pyro, developer, No. 1—Oscar Foss	2 00
One 16 ourse bottle name developer No. 2 Ocean Toss	50
The angle of the pyro, developer, no. 2—Oscar Fuss	50
Five pounds sal soda—Uscar Foss	50
Two dozen 3x4 transparency plates_Oscar Foss	1 20
The description of the second posts of the sec	1 20
Two dozen 4x5 transparency plates—Oscar ross	1 50
Expense of J. E. Keeler inspecting earthquake instruments in	
Colifornia	15 00
Valuotina	10 00
Custom House charges on one case instruments—John H. Boden.	
At Co	4 20
California Custom House charges on one case instruments—John H. Boden.	
Typewriting by W. A. Scott	1 50
Freight on one box publications—Southern Pacific Co	3 20
One thousand 1 cont atomore C II III	
one mousand 1-cent stamps—5. H. Wagener	10 00
One thousand 2-cent stamps—S. H. Wagener	20 00
Two hundred 5 cent stamps & U Wagner	
The handred o-cent stantps-b. H. Wagener	10 00
rive nunared 1-cent postal cards—S. H. Wagener	5 00 5, 00
Two hundred and fifty 2-cent posts   cards S H Wagener	5.00
The manufacture and they become postal cards by II. Wagener	0, 00
rour new snoes and four reset—T. A. Carroll	3 50
Five days' labor, fitting ventilators—Schettler & Co.	20 00
Nine normale colden Colottlen & Co.	
nine pounds solder—scheiner & Co	τsά
Characat Cabattlan & Ca	
Charcoal—Schettier & Co.	1 50
& Co	1 80 1 50

Rivets—Schettler & Co. Fare to Mt. Hamilton and return—Schettler & Co. Telegram to T. G. Phelps—D. C. Hindsall Fees on affidavit—A. B. Merrill Expressage on three packages—Wells, Fargo & Co. Insurance—Balfour, Guthrie & Co. Insurance—Manheim, Dibbern & Co. One portable ice machine—R. Whitman Packing and shipping—R. Whitman Binding eighty volumes—Hicks-Judd Co. Mounting plates—Hicks-Judd Co. Fifty cords wood—R. Kincaid. Two rubber developing trays—Oscar Foss Two polished developing trays—Oscar Foss Twelve sheets ruby paper—Oscar Foss One pound citric acid—Oscar Foss Six dozen 5x8 dry plates—Oscar Foss Six dozen 5x8 dry plates—Oscar Foss Soving—Oscar Foss One dozen Carbutt's trans. plates—Oscar Foss One dozen Carbutt's dry plates—Oscar Foss One dozen Carbutt's dry plates—Oscar Foss One giant sounder—California Electrical Works Three dozen white alb, paper—Oscar Foss One splicing clamp—California Electrical Works One splicing clamp—California Electrical Works Twelve 4-candle-power Edison lamps—Cal. Elect. Wiks Twelve 4-candle-power Edison lamps—Cal. Elect. Wiks Twelve 4-candle-power Edison lamps—Cal. Elect. Wiks Fifteen pounds insulated wire—Cal. Electrical Works Tifteen pounds insulated wire—Cal. Electrical Works Topic German silver wire—California Electrical Works Topic German silver	\$0 70 5 00 50 50 50 80 22 50 75 00 200 00 65 25 4 50 350 00 1 70 1 80 5 00 8 70 4 25 2 80 5 60 3 00
\$53 25 Less 10 per cent5 32	
Boxing—California Electrical Works Hauling during July and August—J. Wandell Sheet brass, twenty-two pounds—Union Iron Works Labor of machinist—Union Iron Works Eleven pounds brass casting—Union Iron Works Three hours pattern work—Union Iron Works One hour machinist fitting—Union Iron Works Two and a half hours machinist—Union Iron Works Two galleys, 8\( \frac{2}{3} \text{x13} — H. \) A. Mathews One mallet—H. A. Mathews One planer—H. A. Mathews One pint job ink—H. A. Mathews One pint job ink—H. A. Mathews One sponge—H. A. Mathews One bottle benzine—H. A. Mathews One type brush—H. A. Mathews One 'Elm City' card cutter—H. A. Mathews Two glue brushes—H. A. Mathews Two glue brushes—H. A. Mathews Two glue brushes—H. A. Mathews Thirty yards binder's cloth—H. A. Mathews One sack flour—H. A. Mathews One bookbinder's press—H. A. Mathews Boxing and shipping—H. A. Mathews Boxing and shipping—H. A. Mathews Boxing and shipping—H. A. Mathews Expressed on one month—Jo. Roban Board for one month—Jo. Roban Board for one month—Jo. Roban Expressage on one box thermometers—Wells, Fargo & Co. Expressage on one box steel rods—Wells, Fargo & Co. Expressage on one package papers—Wells, Fargo & Co. Expressage on one package papers—Wells, Fargo & Co. Expressage on one package rubber—Wells, Fargo & Co.	1 50 1 50 1 50 25 25 25 26 15 00 1 50 2 00 5 00 1 2 00 45 00 20 00 1 00

margage on one package botts—Walls Farms & Co	° \$0 25
Expressage on one package bolts—Wells, Fargo & Co	60 60
Expressage on three hoves machineryWells, Fargo & Co.	1 25
Expressage on one package steel rods—Wells Faron & Co	25
Expressage on one package stationery—Wells, Fargo & Co	$\frac{25}{25}$
Expressage on one package photo plates—Wells, Fargo & Co.	$\overline{25}$
Expressage on one package photo plates—Wells, Fargo & Co.	30
Expressage on one package vulcanite—Wells, Fargo & Co.	25
Expressage on one package books—Wells, Fargo & Co.	1 65
Expressage on one package—Wells, Fargo & Co	25
Express charges advanced—J. Archambeault	1 15
Freight charges advanced during August—J. Archambeault	4 74
Three numbered and fifty feet half redwood—California Mills	3 00
Circar handles T. Archambacult	1 68
One house broom—I Archambéault	$\begin{array}{c}2\ 25\\40\end{array}$
One quart sparm oil I Archambeault	1 00
Rent of Post Office hov—S. H. Wagener	2 50
Two Mann's copybooks—Payot, Upham & Co.	2 78
One rubber stamp—H. A. Mathews.	75
Registered letter—S. H. Wagener	60
One lamp burner—J. Archambeault	15
Two lamp chimneys—J. Archambeault	40
Five hundred 1-cent stamps—S. H. Wagener	5 00
Seven hundred and fifty 2-cent stamps—S. H. Wagener	15 00 5 00
One hundred 5-cent stamps—S. H. Wagener	5 00
Expressage on three boxes machinery—Wells, Fargo & Co.  Expressage on one package steel rods—Wells, Fargo & Co.  Expressage on one package stationery—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package vulcanite—Wells, Fargo & Co.  Expressage on one package wells, Fargo & Co.  Expressage on one package—Wells, Fargo & Co.  Expressage on one package wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressage on one package photo plates—Wells, Fargo & Co.  Expressag	5 00
Dising Sun store polich I Archambankt	3 00 1 00
Two stable helters T A rehembeault	3 50
Assorted platinum wire I Archambeault	1 08
Subscription to "Science Observer"—John Richter Jr	5 00
Two gross carnet tacks—I. Archambeault	1 00
One pound carriage candles—J. Archambeault	75
One carriage whip-J. Archambeault	1 25
Freight charges advanced—J. Archambeault	8 63
One dozen coarse hand towels—A. McCullin	2 40
Setting four tires, and bolts—E. Fitzgerald.	4 00
Thirteen tons barley hay—Antonio Bernal.	195 00
Five gallons sperm oil—Allyn & White	5 00
Cleaning cottages—Mary Roban	8 00
Three gods Promises golf T Archambagult	1 50
Nire and one half nounds paraffire T Archambaguit	2 00 3 75
Two scrophooks	2 00
One third dozen No. 42 milleys—H. A. Mathews \$0.83	2 00
One third dozen No. 25 pulleys—H. A. Mathews 1 17	
One third dozen No. 85 pulleys—H. A. Mathews	
"Petit Globe Geographique de Mars"—B. Westermann & Co Three sacks Premium salt—J. Archambeault Nine and one half pounds paraffine—J. Archambeault Two scrapbooks—Cunningham, Curtiss & Welch One third dozen No. 42 pulleys—H. A. Mathews	
\$2.80 \	
Less 15 per cent 42	
More and Market and Transfer an	2 38
Two sets Martin's casters—H. A. Mathews	S 33
Six nortfoliog 20-21 Sanborn Voil & Co	11 25 5 65
Six portfolios, 22x31—Sanborn, Vail & Co.  Drawing and zinco-map of the region of total eclipse of January  1, 1889—California Label & MacCabe Lithographing Co.	0 00
1 1889—California Label & MacCabe Lithographing Co	16 00
Books from B. Westermann & Co.	121 16
Books from B. Westermann & Co. Expenses incurred in survey of Mt. Hamilton:	
Supplies-Wm. G. Raymond	72 00
Supplies—Wm. G. Raymond Transportation—Wm. G. Raymond Salary of cook—Wm. G. Raymond Two hundred and seventy-five pounds old type metal—Tatum	38 00
Salary of cook—Wm. G. Raymond	40 00
Two hundred and seventy-five pounds old type metal—Tatum	0
& Bowen	24 05
Boxing and cartage	2 00
Five thousand and thirty eight nounds harlow Formars Illian	17 50 46 60
Twenty-five feet leether helting—Raker & Hamilton	12 50
One dozen East bromide-G. A. Donologa & Co	10 50
One Layerne lantern-G. A. Douglass & Co.	28 00
& Bowen.  Boxing and cartage.  Hauling two and one half tons barley—J. R. Kincaid.  Five thousand and thirty-eight pounds barley—Farmers Union.  Twenty-five feet leather belting—Baker & Hamilton.  One dozen East bromide—G. A. Douglass & Co.  One Laverne lantern—G. A. Douglass & Co.  One ream Hovey's albumen—G. A. Douglass & Co.	32 00
	•

# Four dozen lantern-slide plates—G. A. Douglass & Co.... \$2 60 One dozen 8½x10½ rubber trays—G. A. Douglass & Co.... 1 65 Sixteen dozen 8x10 seed plates—G. A. Douglass & Co.... 38 40 Less 10 per cent \_\_\_\_\_ 4 25 \$38 40 Boxing Twenty-four tubes, 2½ inches by 12 feet—Union Iron Works One thousand feet T. and G. lumber—California Mills Five hundred and twenty feet 2x4 lumber—California Mills Lindau and the state of th 46 58 55 00 26 00 One hundred and twenty feet angle bead lumber-California Mills Cartage on lumber—California Mills 5 00 1 00 Four barrels cement—Farmers Union Ten gallons machine oil—Whittier, Fuller & Co. Ten gallons pure sperm oil—Whittier, Fuller & Co. Ten gallons pure lard oil—Whittier, Fuller & Co. Cartage on oil—Whittier, Fuller & Co. 18 00 6 50 10 00 9 00 50 16 88 Books—B. Westermann & Co. One thousand feet surfaced lumber—Santa Clara Lumber Co. 40 00 4 00 20 00 8 00 15 00 One hundred feet surfaced lumber—Santa Clara Lumber Co. Two hundred and fifty feet white cedar—Santa Clara Lumber Co. One hundred feet white cedar—Santa Clara Lumber Co. One hundred feet white cedar—Santa Clara Lumber Co. Repairing tank—Santa Clara Lumber Co..... Fare and expense of man—Santa Clara Lumber Co. 6 50 50 Freight advances—J. Archambeault Expressage during September—Mt. Hamilton Stage Co. One bottle spavin cure—J. Archambeault One gross lamp wicks—J. Archambeault Fifteen large lamp wicks—J. Archambeault 18 65 1 00 75 75 25 25 25 50 1 25 3 50 3 90 1 25 80 2 80 3 00 Three packages student lamp wicks—J. Archambeault Three packages No. A wicks—J. Archambeault....... Three packages No. A wicks—J. Archambeault One railroad lantern—H. A. Mathews One red globe—H. A. Mathews One roll blue paper—H. A. Mathews Traveling expenses of J. E. Keeler One dozen red and blue pencils—Cunningham, Curtiss & Welch One round ebony ruler—Cunningham, Curtiss & Welch Three balls twine—Cunningham, Curtiss & Welch Four balls hemp twine—Cunningham, Curtiss & Welch One box rubber bands—Cunningham, Curtiss & Welch One pint carmine ink—Cunningham, Curtiss & Welch Setting tires—Hatman & Normandin Setting tires—Hatman & Normandin ..... Repairing pole—Hatman & Normandin One half dozen ink bottles—H. A. Mathews Two Mann's copybooks—Payot, Upham & Co. One dozen awning pulleys—H. A. Mathews \$2 50 Five hundred feet cotton rope—H. A. Mathews 1 57 1 25 1 50 2 70 Less 10 per cent 3 67 1 60 Four pair strap hinges, 10-inch—J. Archambeault Eight pair strap hinges, 6-inch—J. Archambeault Painting tanks, etc.—Jo. Roban One rubber stamp—H. A. Mathews Brass casting—W. T. Garratt & Co. One bar tool steel—H. A. Mathews 2 00 12 71 1 00 11 25 1 50 1 50 16 24 20 25 •4 50 One bar tool steel—H. A. Mathews. Brass tubing—H. A. Mathews. Nine plate holders—H. A. Mathews. Two and one quarter boxes dip. tin—C. Badgley. Twenty-five pounds solder—C. Badgley. Two sacks charcoal—C. Badgley. Nails and resin—C. Badgley. Labor of one man—C. Badgley. Labor of one man—C. Badgley. Hauling during October and November—J. R. Kincaid. Twenty pounds flax packing—Union Iron Works. One dozen pyramid pins—Cunningham, Curtiss & Welch. One gross No. 48 pens—Cunningham, Curtiss & Welch. One half dozen wielet copying—Cunningham, Curtiss & Welch. 1 50 1 00 16 00 10 00 16 07 10 00 1 25 75 1 50 4 00

One sixth dozen Arabin copying—Cunningham, Curtiss & Welch One twelfth dozen staf. machine—Cunningham, Curtiss & Welch Case for same—Cunningham, Curtiss & Welch Six panes window glass—H. A. Mathews Twelve panes window glass—H. A. Mathews One standardizing lamp—Richard Briggs Five dozen wicks for lamp—Richard Briggs Five dozen wicks for lamp—Richard Briggs Five gallons pure Colza oil—Eimer & Amend. Repairing wheels to wagon—Hartman & Normandin Freight charges advanced—J. Archambeault One ream of paper—J. Archambeault One thousand and thirty pounds of coal—Farmers Union Five hundred newspaper wrappers—S. H. Wagener Five hundred 1-cent stamps—S. H. Wagener Five hundred 2-cent stamps—S. H. Wagener One hundred 5-cent stamps—S. H. Wagener Expressage during October—Mount Hamilton Stage Co. Eight new shoes—T. A. Carroll Thirty-eight electrotypes—Charles Gilbert Hauling and supplying sand—J. R. Kincaid Hauling nine thousand briok—J. R. Kincaid Hauling nine thousand briok—J. R. Kincaid Rent of Post Office mail box—S. H. Wagener Telegram to Rochester, N. Y.—Western Union Telegraph Co. One swivel caster—H. A. Mathews Rubber tire—H. A. Mathews Rubber tire—H. A. Mathews Rubber tire—H. A. Mathews Rubber tire—H. A. Mathews Rubber tire—Farmers Union Turpentine—Farmers Union Turpentine—Farmers Union Turpentine—Farmers Union One dozen sheets of sandpaper—J. Archambeault	\$2 00
one sixth dozen Arabin copying—Cummignam, Curtiss & Welch	92 00
One twelfth dozen staf. machine—Cunningham, Curtiss & Welch	1 00
Case for same—Cunningham, Curtiss & Welch	25
Giv nanes window glass - H A Mathews	7 03
The parity window glass - 11. 11. Mathewa	2 72
Twerve panes window glass—H. A. Mathews	4 14
Une standardizing lamp—Richard Briggs	10 00
Five dozen wicks for lamp—Richard Briggs	2 00
Five cellong pure Colga oil - Fimer & Amend	4 95
Production of the control of the con	2 00
kepairing wheels to wagon—Hartman & Normandin	8 00
Freight charges advanced—J. Archambeault	21 17
One ream of paper—J. Archambeault	2 50
One thousand and thirty pounds of coal—Farmers Union	15 96
The Land and thirty bounds of CH Wasses	5 50
Five hundred newspaper wrappers—S. H. wagener	5 20
Five hnndred 1-cent stamps—S. H. Wagener	5 00
Five hundred 2-cent stamps—S. H. Wagener	10 00
One hundred 5 cent stamps S H Wagener	5 00
One full dred o-cent stamps—5. 11. Wagener	4 50
Forty-nve 10-cent stamps—S. H. wagener	4.00
Expressage during October—Mount Hamilton Stage Co.	23 05
Right new shoes—T. A. Carroll	4 00
Thirty sight electrotypes Charles Gilbert	43 35
William I I Winner	45 00
naming and supplying sand—J. K. Kincaid	45 00
Hauling nine thousand brick—J. R. Kincaid	22 50
Rent of Post Office mail box—S. H. Wagener	2 50
Telegram to Rochester N V - Western Union Telegraph Co	1 84
On amind a state Tr A Mathematical Control of the C	37
One swiver caster—H. A. Matnews	301
Rubber tire—H. A. Mathews.	1 00
Telephone messages—Sunset Tel. Tel. Co.	1 50
One sweep and mon—I. Archambeault	50
Six nackages of narlow matches T. A rehembersh	1 00
bla backages of partor machines—3. Archambeautt	1 00
Lamp black—Farmers Union	15
Turpentine—Farmers Union	25
Marking pot—Farmers Union	30
Three brishes—Farmers Union	15
One dozen sheets of gondneson 1 Archambagult	15
One dozen sheets of sandpaper—J. Archambeaut	10
One dozen sheets of sandpaper—J. Archambeault	15
One dozen sheets of sandpaper—J. Archambeault	15
Twenty-two large screws—J. Archambeault	85
Marking pot—Farmers Union Three brushes—Farmers Union One dozen sheets of sandpaper—J. Archambeault One dozen sheets of sandpaper—J. Archambeault One dozen sheets of sandpaper—J. Archambeault Twenty-two large screws—J. Archambeault One fourth gallon linseed oil—J. Archambeault Telephone messages—Sunset Telephone and Telegraph Co. Expressage on diary—Cunningham, Curtiss & Welch Expressage during November—Mount Hamilton Stage Co. Freight on ten cases of oil—Goldberg, Bowen & Co. Frity feet weather strips—H. A. Mathews Hauling fifteen stoves, stove furniture, ten cases oil, pipe, etc.— J. D. D. Bernal	30
Telephone megagage Sunget Telephone and Telegraph Co	<b>4</b> 0
Telephone messages—Sunset Telephone and Telegraph Co	
Expressage on diary—Cunningnam, Curtiss & Welch	32
Expressage during November—Mount Hamilton Stage Co	6 30
Freight on ten cases of oil—Goldberg. Bowen & Co.	1 20
Ten cases of Starlight oil—Goldberg, Bowen & Co.	26 46
Fifty feet weether strips H A Mathews	3 60
The line of the state of the st	9 00
Hauring inteen stoves, stove furniture, ten cases on, pipe, ecc.—	04.50
J. D. Bernal	24 50
Freight on publications—Southern Pacific Co.	3 50
Freight on ten cases oil—Southern Pacific Co.	40
One half dozen stove demors—I Archambeault	1 00
The named the state of the stat	
They pounds waste—Union from works	7 00
Labor on photographic stand—K. P. Fraser	50 00
Eight new shoes—T. A. Carroll	4 00
Burnishing steel—John Roach	3 00
One hundred 1 cont stamps S H Wassaner	1 00
Me number 1-cent stamps—5. II. Wagener	1 00
two nunared z-cent stamps—S. H. Wagener	4 00
One piece buckskin—H. A. Mathews	3 00
Two axes—J. Archambeault	3 00 2 50
One cubic yard sand—I. R. Kincaid	4 50
Six nints liquid also I Amham houst	3 90
Ma pinto inquita giae - 3. Alchambeauti	6 85
moving time line—sunset Telephone and Telegraph Co	
Six lantern chimneys—J. Archambeault	1 00
Hauling fifteen stoves, stove furniture, ten cases oil, pipe, etc.— J. D. D. Bernal Freight on publications—Southern Pacific Co. Freight on ten cases oil—Southern Pacific Co. One half dozen stove dampers—J. Archambeault Fifty pounds waste—Union Iron Works Labor on photographic stand—R. P. Fraser Eight new shoes—T. A. Carroll Burnishing steel—John Roach One hundred 1-cent stamps—S. H. Wagener Two hundred 2-cent stamps—S. H. Wagener One piece buckskin—H. A. Mathews Two axes—J. Archambeault One cubic yard sand—J. R. Kincaid Six pints liquid glue—J. Archambeault Moving time line—Sunset Telephone and Telegraph Co. Six lantern chimneys—J. Archambeault Twelve pounds chloride of lime—J. Archambeault One seven-foot flag—Neville & Co.	1 00
Twelve pounds chloride of lime—I. Archambeault	1 00
One seven-foot flag Neville & Co	6 00
One sixth dogon agents hardrets W. W. Montages & Co	0 00
One stable dozen agate buckets— W. W. Montague & Co.	2 60
une sixth dozen upped kettles-W. W. Montague & Co	
Two dozen thumb tacks—H. S. Crocker & Co	1 00
One diary—Cunningham, Curtiss & Welch	2 00
Ten hottles chloride gold—Oscar Foss	7 50
Three nounds lig emmonis_Occar Fogs	1 50
Store fore to Con Took Choe D TT:11	
peage rare to part Jose—Onas. D. Hill	5 00
Twelve pounds chloride of lime—J. Archambeault One seven-foot flag—Neville & Co. One sixth dozen agate buckets—W. W. Montague & Co. One sixth dozen lipped kettles—W. W. Montague & Co. Two dozen thumb tacks—H. S. Crocker & Co. One diary—Cunningham, Curtiss & Welch Ten bottles chloride gold—Oscar Foss. Three pounds liq. ammonia—Oscar Foss. Stage fare to San José—Chas. B. Hill Premium on insurance—J. C. Mitchell & Son. Telegraph message—Western Union Telegraph Co.	25 00
Telegraph message—Western Union Telegraph Co	1 00
最少がい こここ アン・・・・ こうしゅう アンド・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	

One dozen globe valves—H. A. Mathews	<b>\$3 60</b>
Fight new shoes T A Carroll	4 00
One dozen globe valves—H. A. Matnews—Eight new shoes—T. A. Carroll—Ten packages toilet paper—J. Archambeault—One half dozen order books—Cunningham, Curtiss & Welch—One scrap book—Cunningham, Curtiss & Welch—Who horses for one night—Whitney & Donnelly—Post Office box rent—S. H. Wagener—Two bottles spavin cure—I. Archambeault—Five hundred envelopes—J. Archambeault—Five hundred envelopes—J. Archambeault—Rental of telephone for year ending August 15, 1889—Sunset Telephone and Telegraph Co.	9 00
Ten packages tonet paper—J. Archambeault	2 00
One half dozen order books—Cunningham, Curtiss & Welch	60
One scrap book—Cunningham, Curtiss & Welch	75
Two horses for one night Whitney & Donnelly	1 50
Two looses for one high — with they & Donnerry	0.50
Post Office box rent—S. H. Wagener	2 50
Two bottles spavin cure—J. Archambeault	2 00
Five hundred envelones T Archambeault	3 00
Description of the land of the	0 00
Rental of telephone for year ending August 15, 1889—Sunset Tel-	
ephone and Telegraph Co.	35 00
One pair four-surface prisms—I A Brashear	15 00
Mountain and allowing T A Deck on	9 00
Mounting and silvering—J. A. Brasnear	. 3 00
One cover for equatorial—Neville & Co	6 00
ephone and Telegraph Co.  One pair four-surface prisms—J. A. Brashear  Mounting and silvering—J. A. Brashear  Mounting and silvering—J. A. Brashear  One cover for equatorial—Neville & Co.  One cover for photo apparatus—Neville & Co.  One cover for polar axes—Neville & Co.	7 25
One cover for photo apparatus. No file of Co.	£ 000
One cover for polar axes—Nevine & Co	5 00
One atlas—B. Westermann & Co.	2 25
Twenty plates 71x71—Passayant's Plate Factory	3 45
Oleming and an Alice Cine Council Molembar and Melannach Co	15 80
Clearing cross on time tine—Sunset Telephone and Telegraph Co.	19 90
One dozen lantern globes—J. Archambeault	1 50
Seven and one half dozen diamond chimneys—I Archambeault	1 46
One helf dependence of Archamboult	3 00
One nam dozen tamp snades—J. Archambeaut	3 00
Labor making working drawings—J. Westram	18,00
One thousand 1-cent stamps—S. H. Wagener	10 00
Five hundred 2 cent stamps S H Wagener	10 00
One cover for polar axes—Neville & Co.  One atlas—B. Westermann & Co.  Twenty plates, 7½x74—Passavant's Plate Factory  Clearing cross on time line—Sunset Telephone and Telegraph Co.  One dozen lantern globes—J. Archambeault.  Seven and one half dozen diamond chimneys—J. Archambeault  One half dozen lamp shades—J. Archambeault  Labor making working drawings—J. Westram  One thousand 1-cent stamps—S. H. Wagener  Five hundred 2-cent stamps—S. H. Wagener  One hundred 5-cent stamps—S. H. Wagener  Five hundred 1-cent wrappers—S. H. Wagener  Observatory chair for 36-inch equatorial—R. P. Fraser  One thousand four hundred and eight pounds plate iron—Union Iron Works	10,00
One hundred 5-cent stamps—S. H. Wagener	5 00
Five hundred 1-cent wrappers—S. H. Wagener	5 00
Observatory chair for 36-inch aquatorial R P Frager	50 00
Observatory charmed continued quantitations. It is trained	30 00
One thousand four nundred and eight pounds plate from—Union	1
Iron Works	70 40
Twenty-eight pounds wrought iron—Union Iron Works	1 12
Complete State of the State of	1 00
Seventeen pounds Norway iron—Union Iron Works	1 02
Ninety-eight pounds angle iron—Union Iron Works	4 90
Three nounds iron washers—Union Iron Works	24
Twolve nounds in a make Thien Tron Works	1 50
Twelve bounds from fluts—Office from works	1 32
Work on the above—Union Iron Works	37 80
Three pounds iron washers—Union Iron Works Twelve pounds iron nuts—Union Iron Works Work on the above—Union Iron Works Cartage and boxing—Union Iron Works Binding fifty-four volumes—The Hicks-Judd Co.	1 00
Binding offy four volumes. The Hieles Judd Co.	49 60
binding inty-rout volumes—The Hicks-3 ddd Co.	49 00
One book—B. Westermann & Co. Forging crank shaft—J. N. Knox Three days' labor on eclipse apparatus—R. P. Fraser Four and one half days' labor on repairs—R. P. Fraser Replacing broken poles—Sunset Tel. Tel. Co. Four days' labor repairing boiler—Jos. Enright Board and lodging—Jos. Enright Stage fare—Jos. Enright One day's labor making drawing—John Westram Photographic supplies—H. Allen Mathews Traveling expenses of eclipse observers	1 77
Forging crank shaft—J. N. Knox	7 00
Three days' labor on colinge apparetus P P Frager	15 00
Timee days labor on eclipse apparatus—It. I. Frasei	10 00
Four and one half days' labor on repairs—R. P. Fraser	21 25
Replacing broken poles—Sunset Tel. Tel. Co.	11 50
Hour days' labor renairing boiler-Tog Enright	24 00
Donal and ladeing Ton Durink	1 200
board and lodging—Jos. Enright	4 00
Stage fare—Jos. Enright	4 00
One day's labor making drawing—John Westram	6 00
Photographic graphics H Allen Methows	31 12
rhotographic supplies—H. Anen Mathews	31 12
Traveling expenses of eclipse observers Freight on eclipse instruments Four tarpaulins for covers Fourteen dozen parlor matches—J. Archambeault Five and one half dozen diamond chimneys—J. Archambeault Five dozen branid plates H. Allen Methers	84 50
Freight on eclipse instruments	40 00
Four tamousling for covers	6 00
Tourstoon doesn nowless motology T. Auch and hearth	0 00
rourieen dozen parior matches—J. Archambeautt	2 00
Five and one half dozen diamond chimneys—J. Archambeault	1 04
Five dozen bromide plates—H. Allen Mathews One half dozen bottles watch oil—H. Allen Mathews	3 75
One helf-deren hettler wetch eil H. Allen Methews	1 50
One has dozen bottles watch on—ii. Aften watnews	1.50
Six dozen door springs—J. Archambeault	1 50
Six Mann's copybooks—Payot, Upham & Co.	6 75
Twenty pooleges tooks. I Archemboault	1 00
Twenty packages tacks—9. Attendance and the second	1 00
One rou photo paper—H. Allen Mathews	1 00
Expressage—Mt. Hamilton Stage Co.	3 65
Expressage—Mt. Hamilton Stage Co	29 60
Turnesses Wells Towns & Co.	2 25
Expressage - wells, rargo & Co.	220
One half dozen bottles watch oil—H. Allen Mathews Six dozen door springs—J. Archambeault Six Mann's copybooks—Payot, Upham & Co. Twenty packages tacks—J. Archambeault One roll photo paper—H. Allen Mathews Expressage—Mt. Hamilton Stage Co. Expressage—Mt. Hamilton Stage Co. Expressage—Wells, Fargo & Co. Freight advances—J. Archambeault Freight advances—J. Archambeault One pound nitrate silver—Reddington & Co.	10 68
Freight advances—J. Archambeault	79
One pound nitrate silver Reddington & Co	11 00
Third stall and discontinuous and the control of th	1 77 00
One pound nitrate silver—Reddington & Co.  Thirty-eight pounds aqua ammonia—Reddington & Co.	3 23
One hundred and twelve pounds hypo-sul. soda—Reddington & Co.	4 48
Cartage—Reddington & Co.	50
Cartage—Reddington & Co. Twenty-eight and one half days' labor, making wooden jacket	1
Twenty-eight and one nam days impor, making wooden jacket	
for pier of great telescope—R. P. Fraser	142 50
Traveling expenses of E. S. Holden to Sacramento	15 30
Four and one givth dozen farrotune plates. H. Allen Mathema	5 00
Four and one sixth dozen ferrotype plates—H. Allen Mathews One sixth dozen developing trays—H. Allen Mathews	0 00
One sixth dozen developing trays—H. Allen Mathews	2 00

#### DISBURSEMENTS—Continued.

Five dozen trans. plates—H. Allen Mathews. One sidehill plow—Truman, Hooker & Co. Repairing telephone line—Sunset Tel. Tel. Co. Traveling expenses—J. A. Sladky. Two books—B. Westermann & Co. Subscription to Berkeleyan—J. H. Schutte Telegram from eclipse station—Pacific Postal Telegraph Co. Telephone message—Sunset Tel. Tel. Co. Telegrams regarding comet—Western Union Telegraph Co. One thousand sheets paper—Cunningham, Curtiss & Welch One dozen Globe indexes—Payot, Upham & Co. One dozen Globe indexes—Payot, Upham & Co. Case, etc.—Payot, Upham & Co. Treight on eclipse instruments—J. E. Keeler Cutting thirty-one and one half cords wood—H. C. Brown Cutting ten and one half cords wood—H. C. Brown Three diaphragms—Thomas A. Upham Cutting twenty-seven cords wood—H. C. Brown Cutting twenty-seven cords wood—H. C. Brown Cutting twenty-seven cords wood—H. C. Brown Cutting ten and one half cords wood—Hugh Kennedy Furnishing four cords wood—J. R. Kincaid Cutting ten and one half cords wood—Hugh Kennedy Salaries for the year ending June 30, 1889	<b>\$</b> 3 <b>7</b> 5	
One sidehill plow—Truman, Hooker & Co.	13 60	
Repairing telephone line—Sunset Tel, Tel, Co.	80 00	
Traveling expenses-J. A. Sladky	6 00	
Two books—B. Westermann & Co.	16 40	
Subscription to Berkeleyan—J. H. Schutte	2 00 3 64	
Telegram from eclipse station—Pacific Postal Telegraph Co	3 64	
Telephone message—Sunset Tel, Tel, Co.	2 00 10 00	
One thousand sheets paper	10 00	
One dozen Globe indexes—Payot. Upham & Co.	3 60	
One dozen transfer cases—Payot, Upham & Co.	10 00 3 60 4 20	
Case, etc.—Payot, Upham & Co	35	
Freight on eclipse instruments—J. E. Keeler	50 19 63 00	
Cutting thirty-one and one half cords wood—H. C. Brown	63 00	
Cutting ten and one half cords wood—H. C. Brown	21 00 6 50	
Three disphagement Thomas A. Upham	1 25	
Cutting twenty-seven cords wood—H. C. Brown	54 00	,
Cutting eighteen and one half cords wood—Hugh Kennedy	36 50	
Furnishing four cords wood—J. R. Kincaid	24 00	
Cutting ten and one half cords wood—Hugh Kennedy	21 00	
	<del></del>	\$5,136 93
Salaries for the year ending June 30, 1889		10,684 19
To University Site Improvements.		
Labor, as per July payroll  Eight new shoes—H. McCaskell  Taking to Berkeley, painting and putting in place, complete, flagstaff—Simmons & Meyers  Three bent garden valves—Dunham, Carrigan & Hayden Co.  Three water pots, four and one half gallons—Dunham, Carrigan & Hayden Co. One half dozen 8-inch socket hoes—Dunham, Carrigan & Hayden Co.  State Co.	<b>\$</b> 313 00	
Fight new shoot H McCogkell	4 00	
Toking to Berkeley pointing and putting in place complete	200	
flagstaff_Simmons & Mayors	250 00	
Three bent garden valves—Dunham Carrigan & Hayden Co	3 60	
Three water pots, four and one half gallons—Dunham, Carrigan	,	
& Hayden Co.	5 00	
One half dozen 8-inch socket hoes-Dunham, Carrigan & Hay-		•
den Co		•
Less 50 per cent 2 25	2 25	
One valve for No. 3 Smith patented—Dunham, Carrigan & Hay-	2 20	•
den Co.	2 25	•
den Co. One half dozen flat files—Dunham, Carrigan & Hayden Co. \$1 70 One half dozen slim taper files—Dunham, Carrigan &		
One half dozen slim taper files—Dunham, Carrigan &		
Hayden Co 1 20		
90 00		•
\$2 90 Less 50 per cent 1 45		
1 40	1 45	
Sharpening two picks—D. H. Frve	40	
Sharpening two picks—D. H. Frye	40	
Ten gallons pure lard oil—Whittier, Fuller & Co.	8 00	
One hundred and twenty-five feet manilla rope—Dunham, Car-	E 07	
Ingan & Hayden Co.	5 27 331 00	
Sharpening two picks—D. H. Frye. Sharpening two picks—D. H. Frye. Ten gallons pure lard oil—Whittier, Fuller & Co. One hundred and twenty-five feet manilla rope—Dunham, Carrigan & Hayden Co. Labor, as per August payroll.  Expressage three pots, one bundle tools—Patterson & Co. One l-inch hose washer—Pierce & Co. One gallon lard oil—Joseph McClain. One and three quarters pounds solder—Dunham, Carrigan & Hayden Co. One l-inch globe valve—Dunham, Carrigan & Hayden Co. One l-inch globe valve—Dunham, Carrigan & Hayden Co. Labor, as per September payroll	1 00	
One 1-inch hose washer—Pierce & Co	50	
One gallon lard oil—Joseph McClain	1 50	
One and three quarters pounds solder—Dunham, Carrigan &	•	
Hayden Co.	27	
One 3-inch ladle—Dunham, Carrigan & Hayden Co.	25	
One 1-inch globe valve—Dunham, Carrigan & Hayden Co.	85	
Labor, as per September payroll	280 20 20 10	
Seventeen seeks bran R E Hickor & Son	9 10	
Rone and baling sixteen tons hav—R. Moore	36 ŌŎ	
Two spools copper wire—I. W. Savage	30	
Repairing scythe-D. H. Frye	50	
Two wooden screws-D. H. Frye	75	
Sharpening picks and bar—D. H. Frye	50	
Repairing mower—D. H. Frye	3 00 1 50	
Two hundred pounds self. Toger h McClair	2 60	
Rhamening nick_D H Free	200	
Sharpening six pick points—D. H. Frve	60	
One 1-inch globe valve—Dunham, Carrigan & Hayden Co.  Labor, as per September payroll Twenty-six sacks barley—B. E. Hickok & Son Seventeen sacks bran—B. E. Hickok & Son Rope and baling sixteen tons hay—R. Moore Two spools copper wire—J. W. Savage Repairing scythe—D. H. Frye Two wooden screws—D. H. Frye Sharpening picks and bar—D. H. Frye New piece in bar—D. H. Frye Two hundred pounds salt—Joseph McClain Sharpening pick—D. H. Frye Sharpening six pick points—D. H. Frye Sharpening six pick points—D. H. Frye		

1614

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Sharpening three pick points—D. H. Frye	<b>\$0</b> 60
Sharpening two pick points—D. H. Frye Four heavy bolts with nuts—D. H. Frye Sharpening two pick points and steel on four pick points—D. H.	40
Four heavy bolts with puts D H Frys	2 00
Champing two picks with nuts—D. H. Flye	2 00
Sharpening two pick points and steel on four pick points—D. H.	4 45
Frye Eight new shoes—Nelson & McLellan	1 15
Eight new shoes—Nelson & McLellan	4 00
Labor, as per October payroll	370 00
One hundred copies card notices—C. A. Murdock & Co.	7 50
Sharpening two nick points. D. H. Frye	20
Sharpening two pick points D. H. Flye.	40
Labor, as per October payroll One hundred copies card notices—C. A. Murdock & Co. Sharpening two pick points—D. H. Frye Sharpening four pick points—D. H. Frye Sharpening two pick points—D. H. Frye Sharpening two pick points—D. H. Frye Sharpening six pick points—D. H. Frye Sharpening six pick points—D. H. Frye Setting and sharpening shears—D. H. Frye Six large bolts—D. H. Frye Repairing hames—Nelson & McLellan Fight new shoes—Nelson & McLellan	
Sharpening two pick points—D. H. Frye	20
Sharpening two pick points—D. H. Frye	20
Sharpening six pick points—D. H. Frye	60
Setting and sharpening shears—D. H. Frye	50
Six large holts. D. H. True	1 50
Darange Dolles D. H. Flye	50
Repairing names—Nelson & McLellan	
	4 00
One cultivator tooth—Nelson & McLellan	1 00
One new bolster—Nelson & McLellan	4 00
Iron plate on top-Nelson & McLellan	75
Tobbe as no Neverbon w Release	271 00
Labor, as per November payron	
Labor, as per December payron	279 00
Repairing one fork—Nelson & McLellan	35
Labor, as per November payroll Labor, as per December payroll Repairing one fork—Nelson & McLellan Sharpening one plowshare—Nelson & McLellan	50
Six holts—Nelson & McLellan	1 50
Six bolts—Nelson & McLellan One half dozen Hurd's hdl. axes, 32x42—Huntington-Hopkins Co. One dozen ex. 36-inch ax handles	5 00
One does or 90 inch a bodder	2 75
One Gozen ex. 30-inch ax handles	
Two links in chain Nelson & McLellan	20
One bolster on wagon—Nelson & McLellan	3 50
()ue new stay chain—Nelson & McLellan	75
Two links in chain—Nelson & McLellan	20
Two nicks sharpened Nalson & Matallan	30
Ton goden comets W. A. Popus & Co.	4 25
Tell sacks carrots—W. A. house & Co.	
Eight sacks rye grass—Thos. A. Cox & Co	56 00
Two links in chain—Nelson & McLellan Two picks sharpened—Nelson & McLellan Ten sacks carrots—W. A. Rouse & Co. Eight sacks rye grass—Thos. A. Cox & Co. Thirteen sacks seed oats—Thos. A. Cox & Co.	. 20 95
Une set lead pars—Nelson & McLellan	6 50
Two drills sharpened—Nelson & McLellan	25
Two drills sharpened—Nelson & McLellan One plowshare fitted—Nelson & McLellan	75
One plowshare sharpened—Nelson & McLellan	25
One plowshare sharpened—Nelson & McLellan	
Eight new shoes—Nelson & McLellan	4 00
One share sharpened—Nelson & McLellan Repairing plows and bolts—Nelson & McLellan	25
Repairing plows and bolts—Nelson & McLellan	1 25
Labor, as per January payroll Expressage on twenty-one sacks seed—Patterson & Co	276 00
Expresses on twenty one seeks seed Potterson & Co	5 00
Expressing on thirteen goods grain Determine & Co.	2 50
Expressage on thirteen sacks grain—Patterson & Co. One book—A. B. Merrill.	
One book—A. B. Merrill	1 50
One clevis—Nelson & McLellan	35
One pointed share—Nelson & McLellan	50
One share sharpened—Nelson & McLellan	25
One share sharpened—Nelson & McLellan One nail rod and rep. machine—Nelson & McLellan	4 00
Shamoning plays should Nalson & Matallan	50
Sharpening plow shovel—Nelson & McLellan———————————————————————————————————	
Repairing mower—Nelson & McLellan	1 50
Repairing mower—Nelson & McLellan	1 50
Labor, as per February payroll	<b>246</b> 00
Labor, as per March payroll.	<b>270</b> 50
Labor, as per March payroll. Repairing lawn mower—Nelson & McLellan	75
Fight new shoes Nelson & Mot ollen	4 00
Bour 5 inch holte Nolone & McTallan	± 00
Four o-men botts—Netson & McLenan	50
Advertisement for bids—" Morning Times"	2 65
Twenty pieces 3-inch sewer pipe—J. W. Savage	4 20
Advertisement for bids—"Tribune" Publishing Co.	5 25
Reparming rawn inversement of McLellan Eight new shoes—Nelson & McLellan Four 5-inch bolts—Nelson & McLellan Advertisement for bids—"Morning Times" Twenty pieces 3-inch sewer pipe—J. W. Savage Advertisement for bids—"Tribune" Publishing Co. Cutting grass and clearing grounds—J. J. Dunn Houlist tent on selection of the publishing Co.	45 25
Hauling ten tons saltpeter—J. J. Dunn	$12 \overline{00}$
Labor, as per April payroll	265 00
Danging lawn mayor Nolgan & Malan	
Repairing lawn mower—Nelson & McLellan	25
Repairing swantail (mower)—Nelson & McLellan	50
Splicing knife—Nelson & McLellan	1 00
Repairing mower—Nelson & McLellan	2 25
Repairing mower—Nelson & McLellan Repairing wrench—Nelson & McLellan	25
Splicing knife—Nelson & McLellan	75
One half dozen barrels—Joseph McClain	1 80
One bucket—Joseph McClain	25
Tohon as non May pound!	
Labor, as per May payroll	332 00
	•

Eight new shoes—Nelson & McLellan Repairing mower—Nelson & McLellan Seventeen carloads of cinders—Southern Pacific Co. Twenty-six sacks rolled barley—B. E. Hickok & Son Thirteen sacks bran—B. E. Hickok & Son Two sacks oil meal—B. E. Hickok & Son Five thousand four hundred and forty-eight feet gutter—J. J. Dunn Excavating for gutter—J. J. Dunn Replacing macadam—J. J. Dunn Plowing, where needed—J. J. Dunn Three scythes—Congdon & Co. Three spading forks—Congdon & Co. Labor, as per June payroll Measuring gutter, etc.—W. G. Raymond	<b>\$4</b> 00	
Repairing mower—Nelson & McLellan	2 00	
Seventeen carloads of cinders—Southern Pacific Co.	51 00	-
Twenty-six sacks rolled barley—B. E. Hickok & Son	17 47	
Two secks oil meel_R E. Hickok & Son	7 43 3 00	
Five thousand four hundred and forty-eight feet gutter—J. J. Dunn	1,471 46	
Excavating for gutter—J. J. Dunn	163 14	
Replacing macadam—J. J. Dunn.	108 76	-
Plowing, where needed—J. J. Dunn	10 00 2 25	
Three snading forks—Congdon & Co	2 70	
Labor, as per June payroll	283 65	
Measuring gutter, etc.—W. G. Raymond	6 25	
To Water Supply.		\$5,967 20
Labor, as per July payroll Labor, as per August payroll Six pounds blk. fittings—E. F. Delger One 1-inch finished bibb. Nine hundred and forty thousand nine hundred and ten gallons water—Alameda Water Co. Full abstract to property of H. A. Palmer. \$60 00 Recording deed—G. L. Mix 2 50	\$2 00	
Labor, as per August payroll	2 00	
Six pounds blk. fittings—E. F. Delger	90	
Vine hundred and forty thousand nine hundred and ten cellang	2 10	
water—Alameda Water Co.	282 27	
Full abstract to property of H. A. Palmer\$60 00	-0	*
Recording deed—G. L. Mix		
Tohan og nar Santanskar navredl	62 50	
Labor, as per September payroll  Eleven and one half pounds fittings—Richard Chaloner Two bushings, 1½ to 1 inch—Richard Chaloner One nipple and socket—Richard Chaloner Labor, as per October payroll  Water for month of September—Alameda Water Co. Water for month of October—Alameda Water Co. Insurance—Home Mutual Insurance Co. Putting in pipe—Robert T. Fearey	$\begin{array}{ccc} 2 & 00 \\ 2 & 87 \end{array}$	
Two bushings, 14 to 1 inch—Richard Chaloner	50	
One nipple and socket—Richard Chaloner	55	`
Labor, as per October payroll	2 00	
Water for month of September—Alameda Water Co.	12 80 18 96	
Insurance—Home Mutual Insurance Co	18 00	
Putting in pipe—Robert T. Fearey	25 00	
New waterback for range—John G. Ils	5 00	
Bricks and fire clay used—John G. Ils	1 25	-
Railroad fares Tohn G. Ha	50 1 00	
Inspection by expert—John G. Ils	2 00	
Work by two men putting in waterback—John G. Ils	7 00	
New top for oven—John G. Ils	1 50	
Une fourth day's time cleaning out pipe at range—R. D. Fearey	2 00 36 00	
Plastering kitchen ceiling—H. L. Whitney	10 00	
Water for September and October—Alameda Water Co.	4 36	
Painting in kitchen—Geo. D. Smith	1 50	
Weter for December Alexada Water Co	3 50 9 40	•
Water for January—Alameda Water Co.	9 40 6 57	
Taxes on property—C. E. Palmer	2 54	
Taxes on property—C. E. Palmer	2 03	
New waterback for range—John G. Ils		
Work of two men putting in waterheek. John G. Ils. 7.00		
Fares of two men—John G. Ils		
Water for month of October—Alameda Water Co. Insurance—Home Mutual Insurance Co. Putting in pipe—Robert T. Fearey New Waterback for range—John G. Ils Bricks and fire clay used—John G. Ils Fittings—John G. Ils Railroad fares—John G. Ils Inspection by expert—John G. Ils Work by two men putting in waterback—John G. Ils New top for oven—John G. Ils One fourth day's time cleaning out pipe at range—R. D. Fearey. Insurance—Oakland Home Insurance Co. Plastering kitchen ceiling—H. L. Whitney Water for September and October—Alameda Water Co. Painting in kitchen—Geo. D. Smith Repairing roof—A. H. Broad Water for December—Alameda Water Co. Water for January—Alameda Water Co. Taxes on property—C. E. Palmer Taxes on property—C. E. Palmer New waterback for range—John G. Ils.  New waterback for range—John G. Ils.  \$5 00 New bricks and clay used—John G. Ils.  \$7 00 Fares of two men—John G. Ils.		
Less rebate 3 75	10.00	
Recording deed—R. W. Church, County Recorder. State and county taxes on property—C. E. Palmer. State and county taxes on property—C. E. Palmer. Water for February—Alameda Water Co. Land purchased from C. A. Bailey. Water for March—Alameda Water Co. Labor, as per November payroll Labor, as per December payroll Labor, as per January payroll Labor, as per February payroll Labor, as per March payroll Labor, as per March payroll Labor, as per April payroll Labor, as per May payroll Labor, as per May payroll Labor, as per May payroll	$\begin{array}{c} 10 \ 00 \\ 2 \ 00 \end{array}$	
State and county taxes on property—C. E. Palmer	3 34	
State and county taxes on property—C. E. Palmer	1 65	
Water for February—Alameda Water Co.	18 93 4,500 00	
Water for March Alameda Water Co	4,500 00 31 05	
Labor, as per November payroll.	2 00	
Labor, as per December payroll	2 00	
Labor, as per January payroll.	. 2 00	
Labor, as per February payroll	2 00	•
Labor, as per March payroll	2 00 2 00	
Labor, as per May payroll	2 00	
// End		

Water for May—Alameda Water Co  Team for examining water supply—Berkeley Livery Stable Labor, as per June payroll.  Repairing waterback—John J. Menges  Repairs at Palmer House—J. W. McNamara  Repairs to sink at Palmer House—J. W. McNamara  Water for November—Alameda Water Co  Advances by Louis Sloss, Treasurer  Galvanized wire cloth—California Wire Works  Water for April—Alameda Water Co	\$149 86 2 00 2 00 2 50 2 50 14 70 17 52 1,150 33 3 25 107 52	\$6,5 <b>63</b>
To Equipment and Repairs.		
Two dozen Rising Sun stove polish—Dunham, Carrigan & Hayden Co.  Two dozen tacks, each 10-12-14—Dunham, Carrigan & Hayden Co.  \$6 60 One doz. tacks, 8-ounce—Dunham, Carrigan & Hayden Co.	<b>\$1 40</b>	
\$7 40 Less 60 per cent44	0.00	
Thirty-five yards body Brussels, sewed and laid—E. Hook One water pitcher—E. Hook  Two goblets E Hook	2 96 52 50 10 00 1 25 1 00	, ,
Thirty-five yards body Brussels, sewed and laid—E. Hook	50 1 00 50 50 1 05 80	
One mortise lock—Dunham, Carrigan & Hayden Co. One night latch—Dunham, Carrigan & Hayden Co. One half dozen pair butts—Dunham, Carrigan & Hayden Co. Two dozen sash lifts—Dunham, Carrigan & Hayden Co. One pair steel hinges—Joseph McClain One trip to San Francisco—Fred. Iddins	75 1 25 50 70 25 25	
Cleaning one 8-day clock—John Frey Polishing pivots, and two new bushes—John Frey Eight and one half pounds twine—J. W. Savage Four pieces 3-inch pipe—J. W. Savage	1 00 1 00 85	and the factor of the second
T 00		
One dozen bibb washers—E. F. Delger Fourteen lights, 34½x22-16—Whittier, Fuller & Co Fourteen lights, 33x194—16—Whittier, Fuller & Co Fourteen lights, 22x32-16—Whittier, Fuller & Co Seven lights, 13x284—16—Whittier, Fuller & Co Seven lights, 13x284—16—Whittier, Fuller & Co Sixty alabastine—Whittier, Fuller & Co One package No. 25 kalsomine—Whittier, Fuller & Co One package No. 60 kalsomine—Whittier, Fuller & Co One package No. 60 kalsomine—Whittier, Fuller & Co One dozen pair brass desk butts—Huntington-Hopkins Co Two dozen pair iron parl. butts—Huntington-Hopkins Co Two dozen pair brass desk butts—Huntington-Hopkins Co Two dozen pair brass desk butts—Huntington-Hopkins Co One dozen 6-inch light strap hinges—Huntington-Hopkins Co One dozen 6-inch light strap hinges—Huntington-Hopkins Co One dozen L. J. butts, L 84—Huntington-Hopkins Co One dozen L. J. butts, R 84—Huntington-Hopkins Co Six gross screws, 2½x10—Huntington-Hopkins Co Six gross screws, 2½x10—Huntington-Hopkins Co Six gross screws, 2½x10—Huntington-Hopkins Co One hundred and fifty pounds wire nails—Huntington-Hopkins Co One hundred and fifty pounds wire nails—Huntington-Hopkins Co One half ream sandpaper, No. 0—Huntington-Hopkins Co One half ream sandpaper, No. 2—Huntington-Hopkins Co	1 35 50 11 34 8 26 9 10 2 59 6 00 64 74 78 72 6 25 50 1 00 1 68 48 80 80 81 81 82 82 84 84 85 80 80 80 80 80 80 80 80 80 80 80 80 80	
One half ream sandpaper, No. 2—Huntington-Hopkins Co	2 50 2 50	į

	Two dozen key blanks—Huntington-Hopkins Co One half dozen stubs, 5-inch flat—Huntington-Hopkins Co	<b>\$1</b> 00
	One half dozen stubs, 5-inch flat—Huntington-Hopkins Co	1 20 25
	Expressage on one bundle of rope—Patterson & Co	50
	Expressage on five cases of glass and hardware—Patterson & Co.	2 25 3 35
	Six yards leather gimp—W. & J. Sloane & Co.	30 30
	One yard felt—W. & J. Sloans & Co.	1 25
	Three dozen rodded chairs—Cal. Furniture Manufacturing Co.	2 50 63 00
	Three hundred feet sugar pine—Henry W. Taylor	30 00 6 00
1	Three hundred feet surfaced pine—Henry W. Taylor	6 00 6 00
	Eight hundred feet double surfaced redwood—Henry W. Taylor—	28 80
	One thousand shingles—Henry W. Taylor.	2 00
	Three hundred feet double surfaced cedar—Henry W. Taylor	1 05 18 00
	Five hundred feet double surfaced sugar pine—Henry W. Taylor.	50 00
	Five hundred feet clear spruce—Henry W. Taylor————————————————————————————————————	16 50 8 15
	One half dozen stubs, 5-inch flat—Huntington-Hopkins Co	148 64
	One hundred and seventy square yards cocoa matting—E. Hook	119 00
	One hundred and ten square yards cocoa matting—E. Hook	77 00
	Four parts stove—M. De La Montanya	16 00 1 20
	One 5½-inch elbow—M. De La Montanya	30
	One damper—M. De La Montanya	25 75
	Collars—M. De La Montanya	10
	Labor and cartage—M. De La Montanya	1 50
	One harrel refined asphaltum—N. C. Walton	43 20 16 00
	Four thousand feet redwood lumber—H. W. Taylor	72 00
	One pitcher—F. R. Stevenson & Co.	30 20
	Making two stands of shelves—J. T. Baum	17 00
	Making large table—J. T. Baum	5 00
	One Hack saw blade—Frank A. Davis	1 00 20
	Fifteen pounds rope—J. K. Stewart	1 10
	Two P. buckets—Joseph McClain	1 00 60
	Extinguisher hose—J. W. Girvin & Co.	1 75
	One Magic nozzle—H. P. Gregory & Co.	75 50
	Forty-six square feet zinc—Jos. F. Forderer	. 506
	One corrugated elbow-W. W. Montague & Co	50
	Two ladders, five feet—Armes & Dallam	3 50 3 50
	One gross screw hooks—Huntington-Hopkins Co.	75
	One mortised night latch—Huntington-Hopkins Co.	2 00 - 95
	One dozen drawer locks—Huntington-Hopkins Co.	3 50
	Repairing plastering in North Hall, as follows:	44.00
	One laborer one day—H. L. Whitney	$\begin{array}{c} 11 \ 00 \\ 3 \ 00 \end{array}$
	Materials, mortar, putty, etc.—H. L. Whitney	2 00
	Repairs in South Hall, as follows:	11 00
	One laborer one day—H. I Whitney	3 50
	One laborer one day—H. L. Whitney	3 50
Ĺ	Plaster, putty, etc.—H. L. Whitney	11 00 2 50
	One hundred and seventy-five feet cast plaster moldings—H.	15.50
	Mill work—Henry W. Taylor  Two hundred and twelve and one third square yards cocoa matting—E. Hook One hundred and seventy square yards cocoa matting—E. Hook One hundred and seventy square yards cocoa matting—E. Hook No. 20 Bradford stove—M. De La Montanya Four parts stove-pipe—M. De La Montanya One 5j-inch elbow—M. De La Montanya One 5j-inch elbow—M. De La Montanya One balf sheet zinc—M. De La Montanya One half sheet zinc—M. De La Montanya One half sheet zinc—M. De La Montanya Collars—M. De La Montanya Labor and cartage—M. De La Montanya Labor and cartage—M. De La Montanya Forty-eight gallons No. 3 P. & B. paint—Paraffline Paint Co. One barrel refined asphaltum—N. C. Walton Four thousand feet redwood lumber—H. W. Taylor One pitcher—F. R. Stevenson & Co. Three glasses—F. R. Stevenson & Co. Three glasses—F. R. Stevenson & Co. Making large table—J. T. Baum One sack charcoal—J. K. Stewart One Hack saw blade—Frank A. Davis Fifteen pounds rope—J. K. Stewart Two P. buckets—Joseph McClain One half dozen tin cups—Joseph McClain Extinguisher hose—J. W. Girvin & Co. One Magic nozzle—H. P. Gregory & Co. One coupling—H. P. Gregory & Co. One coupling—H. P. Gregory & Co. One ladders, five feet—Armes & Dallam One ladder, ten feet—Armes & Dallam One laborer one day—H. L. Whitney One hundred and seventy-five feet cast plaster moldings—H. L. Whitney One contest floor, pier of bricks, c	17 50
	Whitney Cementing walls (outside North Hall)—H. L. Whitney	50 00 45 00
-	Plastering ceiling of boiler-room in Library—H. L. Whitney	15 00
l	Whitening Prof. Greene's room—W. T. Lingard	18 00
Ĺ	Whitney Cementing walls (outside North Hall)—H. L. Whitney Plastering ceiling of boiler-room in Library—H. L. Whitney Whitening Prof. Greene's room—W. T. Lingard Staining one box in Prof. Putzker's room—W. T. Lingard Staining one box in Dean's office—W. T. Lingard	50
ŀ	<b>.</b>	•

Painting base in Prof. Cook's room W. T. Lingard	\$0 50
Varnishing casing in Recorder's office—W. T. Lingard	50
Seven hundred feet T. and G. pine—Henry W. Taylor	21 70
Thirty-eight feet pine—Henry W. Taylor	1 76
Painting base in Prof. Cook's room—W. T. Lingard Varnishing casing in Recorder's office—W. T. Lingard Seven hundred feet T. and G. pine—Henry W. Taylor Thirty-eight feet pine—Henry W. Taylor Seventy-two feet pine—Henry W. Taylor One thousand and fifty feet T. and G. redwood—Henry W. Taylor One hundred and fifty feet † redwood—Henry W. Taylor One thousand and fifty feet T. and G. redwood—Henry W. Taylor One walnut desk—Niehaus Bros. & Co.	04.05
One thousand and fifty feet T. and G. redwood—Henry W. Taylor.	34 65
One thousand and fifty feet T and G redwood—Henry W Taylor	1 45 34 65
One walnut deak. Nichaus Rros & Co.	125 00
One walnut desk—Niehaus Bros. & Co. Cedar molding—Niehaus Bros. & Co. One inside window blind—Niehaus Bros. & Co. Eleven pieces dressed lumber—Niehaus Bros. & Co.	1 50
One inside window blind-Niehaus Bros. & Co.	6 50
Eleven pieces dressed lumber—Niehaus Bros. & Co.	5 00
Fifty feet molding—Niehaus Bros. & Co.	2 25
Fifty feet molding—Niehaus Bros. & Co. Thirty-six rodded chairs—California Furniture Mfg. Co. Ten antique rockers—California Furniture Manufacturing Co.	63 00
One entique cockers—California Furniture Manufacturing Co	30 00 25 00
One antique desk—California Furniture Manufacturing Co.  Making twenty-four sets ax holders—W. T. Garratt & Co.  Ten feet 2-inch cast-iron pipe—John J. Menges Four feet 2-inch cast-iron tees—John J. Menges	18 00
Ten feet 2-inch cast-iron pipe—John J. Menges	2 50
Four feet 2-inch cast-iron tees—John J. Menges	2 50 3 00
Two 2-inch cast-iron hubs—John J. Menges	60
One 2-inch ell—John J. Menges	75
Three 2-inch brass ferrules—John J. Menges	90
Two 3-inch bross strainers—John I Menges	25 50
Washers for hibbsIohn I Menges	25
Two feet 6-inch lead pipe—John J. Menges	$1\ \frac{25}{25}$
Eight pounds solder—John J. Menges	1 60
Twenty pounds calking lead—John J. Menges	1 20
Four feet 2-inch cast-iron tees—John J. Menges Two 2-inch cast-iron hubs—John J. Menges One 2-inch ell—John J. Menges Three 2-inch brass ferrules—John J. Menges One 2-inch plug—John J. Menges Two 3-inch brass strainers—John J. Menges Two 3-inch brass strainers—John J. Menges Two feet 6-inch lead pipe—John J. Menges Eight pounds solder—John J. Menges Twenty pounds calking lead—John J. Menges Twenty pounds calking lead—John J. Menges Three days' labor—John J. Menges Three days' labor—John J. Menges Repairing closet in North Hall—John J. Menges Furnishing and putting up gas fixtures in Physical Laboratory—John J. Menges	25
Three days' labor—John J. Menges	21 00
Exprishing and putting up and fixtures in Physical Laboratory	2 00
Tohn I Menage	16 00
J. Menges	27 00
Cleaning and whitening Chemical Laboratory—W. T. Lingard.	35 00
Furnishing and setting nineteen lights glass—W. T. Lingard	18 00
J. Menges  Cleaning and whitening Chemical Laboratory—John J. Menges  Cleaning and whitening Chemical Laboratory—W. T. Lingard Furnishing and setting nineteen lights glass—W. T. Lingard Painting nine sets inside blinds—W. T. Lingard One Brussels rug—Frank G. Edwards One brush mat—Frank G. Edwards Thirty-eight and one half yards Napier matting—F. G. Edwards Binding two ends—Frank G. Edwards. One 8-foot white cedar bookcase—J. T. Baum Expressage on sixty-two chairs, ten rockers—Patterson & Co.	38 00 16 00
One brush mat. Frank G. Edwards	2 00
Thirty-eight and one half yards Napier matting—F. G. Edwards	30 80
Binding two ends—Frank G. Edwards	1 50
One 8-foot white cedar bookcase—J. T. Baum	45 00
Expressage on sixty-two chairs, ten rockers—Patterson & Co	12 00
Expressage on two bundles axes—Patterson & Co.  Expressage on one desk, one package—Patterson & Co.  Expressage on one desk—Patterson & Co.  Expressage on one desk—Patterson & Co.  Expressage on two bales carpet—Patterson & Co.  Expressage on materials for laboratory—Patterson & Co.  Expressage on materials for laboratory—Patterson & Co.  Expressage on four hundred pounds asphaltum—Patterson & Co.  Expressage on three stepladders—Patterson & Co.  Expressage on one barrel tar and hardware—Patterson & Co.  Putting up gas fixtures in Prof. Edwards' room—John J. Menges Four hundred pounds asphaltum—R. A. Kershaw  Two barrels coal tar—Oakland Gas Co.  Four dozen Climax erasers—Payot, Upham & Co.  One dozen galvanized buckets—W. W. Montague & Co.  One dozen pairs 6x8 brackets—Huntington-Hopkins Co.  One gross 1x8 screws—Huntington-Hopkins Co.	50 2 00
Expressage on one deek, one package—ratterson & Co	1 75
Expressage on one chair—Patterson & Co.	50
Expressage on two bales carpet—Patterson & Co	1 25
Expressage on one deskPatterson & Co	2 00
Expressage on materials for laboratory—Patterson & Co	1 25
Expressage on dumb-bells—Patterson & Co.	$\begin{array}{c} 50 \\ 2 \ 50 \end{array}$
Expressage on four numbered pounds aspirations—I accessor & co.	$\begin{array}{ccc} 2 & 50 \\ 75 \end{array}$
Expressage on one barrel tar and hardware—Patterson & Co	3 00
Putting up gas fixtures in Prof. Edwards' room—John J. Menges.	7 00
Four hundred pounds asphaltum—R. A. Kershaw	4 00
Two barrels coal tar—Oakland Gas Co.	10 00
Four dozen Ulmax erasers—Payot, Upnam & Co.	6 00
One dozen gaivanized buckets—w. w. Montague & Co	4 20 1 50
One gross 1x8 screws—Huntington-Honkins Co.	25
One office chair—F. S. Chadbourne & Co.	8 00
One dozen pairs 6x8 brackets—Huntington-Hopkins Co. One gross 1x8 screws—Huntington-Hopkins Co. One office chair—F, S. Chadbourne & Co. One slate board and boxing—A. J. LaBar. Carpenter work on Gymnasium—Henry Parker One blower stand for Recorder's office—E. F. Delger. One tin pan for Recorder's office—E. F. Delger. One piece of zinc—John J. Menges. Extra work on Gymnasium—E. A. Sawyer. One piece for Challenge paper cutter—Tatum & Bowen. One Yale padlock—Huntington-Hopkins Co. One sheet narrow zinc—John J. Menges. Three pairs thumb latches—W. & M. Everson	4 93
Carpenter work on Gymnasium—Henry Parker	35 00
One blower stand for Recorder's office—E. F. Delger	80
One piece of gine. John J. Mongoo	30 75
Extra work on Gumnasium—R A Sawyer	2 00
One piece for Challenge paper cutter—Tatum & Bowen	3 00
One Yale padlock—Huntington-Hopkins Co.	őŏ
One sheet narrow zinc-John J. Menges	60 1 25
Three pairs thumb latches—W. & M. Everson	75

One quire ledger paper—J. J. Evans  Eighty-eight flashings—John J. Menges  Twelve feet valley tin—John J. Menges  One dozen drawer locks—Hawley Bros. Hardware Co.  One leather cushion—California Furniture Mfg. Co.  \$3.50  Less 5 per cent  20	e1 00
One quire leager paper - J. J. Evans	<b>\$1</b> 00
Eighty-eight flashings—John J. Menges	1 32
Twelve feet valley tin-John J. Menges	1 20
One dozen drawer locks—Hawley Bros. Hardware Co.	3 75
One leather cushion—California Furniture Mfg. Co. \$3.50	
Tess 5 nor agent	
Less o per cent	9 90
	3 30
One black fire set—California Gas Fixture Co.	4 50
One dozen desk butts—J. W. Savage	60
One gross screws—J. W. Savage	20
One black fire set—California Gas Fixture Co. One dozen desk butts—J. W. Savage One gross screws—J. W. Savage Two dozen brass screws—J. W. Savage. One 6-inch elbow—W. W. Montague & Co. One dozen Yale latches—Huntington-Hopkins Co. Two cupd. locks—Huntington-Hopkins Co. One half dozen No. 3 brass keys—Huntington-Hopkins Co. One half dozen No. 411 street keys—Huntington-Hopkins Co. One dozen No. 412 street keys—Huntington-Hopkins Co. One dozen No. 422 street keys—Huntington-Hopkins Co. Twelve feet office rail redwood—Nichaus Bros. & Co. Twenty balusters and one post—Nichaus Bros. & Co. Four drawing cases—Möller & Sass Six sets panel doors—Möller & Sass Six sets panel doors—Möller & Sass Forty-eight pieces surfaced redwood—Henry W. Taylor. \$36 15 Less.  15	05
One Sinch allow. W W Montagna & Co	35
One of their error Valadatabase Hamiltonia Hamiltonia Co	21 00
one dozen Tale lattnes—Huntington-Hopkins Co.	21 00 .
Two cupd. locks—Huntington-Hopkins Co.	10 00
One half dozen No. 3 brass keys—Huntington-Hopkins Co	50
One dozen No. 411 street keys—Huntington-Hopkins Co.	1 50
One half dozen No. 408 street keys—Huntington-Honkins Co.	75
One dozen No. 412 street keys—Huntington-Honkins Co.	1 50
Two live foot office will redwood Nichous Drop & Co	1 00
Twelve leet office fair led wood—Nielaus Blos. & Co.	7 00
Twenty balusters and one post—Nienaus Bros. & Co	• • •
Four drawing cases—Möller & Sass	
Sixteen glass doors—Möller & Sass	225 00
Six sets panel doorsMöller & Sass	-
Forty-eight pieces surfaced redwood_Henry W Taylor \$36 15	
Tood 15	
Less	90.00
	36 00
Architect's commission of challees in folloth story of Mechanic (	
Arts building—Clinton Day  Alterations in fourth story of Mechanic Arts building—John	<b>43</b> 50
Alterations in fourth story of Mechanic Arts building—John	
Spencer	870 00
Three degar and looks Dunham Carrigon & Hayden Co	16 88
The dozen cupid. locks—Dumani, Carligan & Hayden Co.	98
inree dozen pair iron butts—Dunnam, Carrigan & Hayden Co	98
Four gross screws—Dunham, Carrigan & Hayden Co.	63
Two lights, 15x36, in Gymnasium—W. T. Lingard	2 25
Six lights, 15x18, in Gymnasium—W. T. Lingard	3 60
Frosting forty windows in Gymnasium—W. T. Lingard	16 00
Three hand sours—Piarce & Co	4 50
One hand gare Biones & Co	4 50 2 25 2 25
One name saw—Fierce & CO.	2 20
One one-man saw—Pierce & Co.	2 25
Three fourths dozen files—Pierce & Co.	1 25
Six 6-foot rollers—Niehaus Bros. & Co.	3 00
Nine key blanks—Harris, Oswald & Noble	25
Three key blanks_I Todt	$\overline{25}$
One half dozen store does looks. Huntington Henking (lo	10 00
The han dozen store door locks—I untiligion-Hopkins Co.	10 00
rour pounds snellac—whittier, Fuller & Co.	1 00
Ten pounds white shellac Whittier, Fuller & Co.	3 00 2 65
One gallon alcohol—Whittier, Fuller & Co.	2 65
One and one half yards velvet—Taft & Pennoyer	2 25
Two brass bolts—W. & M. Everson	90
One cas-fixture hook—I. W. Savage	20
One mortisa lock—I W Savaga	$\frac{1}{45}$
Dicht conversions T. W. Savage	40
entities of the street of the	1 00
spincing seven screws—w. McIntosh	1 00
One 48-drawer U. S. Document Cabinet, with lock and casters—	
Bassett, Slemin & Co.	121 50
Repairing water-closet and tank in Gymnasium building—Rich-	•
'ard Chaloner	6 30
Material and labor repairing waste pines and cocks in Chemical	
Deportment Richard Chalener	13 20
Six las helts Dunham Coming & Harden Co	15
on log boils—Dulham, Carrigan & Hayden Co.	10
One bead plane—Dunnam, Carrigan & Hayden Co.	50
One brass-top fender—California Wire Works	4 15
Arts building—Clinton Day Alterations in fourth story of Mechanic Arts building—John Spencer Three dozen cupd. locks—Dunham, Carrigan & Hayden Co. Three dozen pair iron butts—Dunham, Carrigan & Hayden Co. Three dozen pair iron butts—Dunham, Carrigan & Hayden Co. Trout gross screws—Dunham, Carrigan & Hayden Co. Two lights, 15x36, in Gymnasium—W. T. Lingard Six lights, 15x18, in Gymnasium—W. T. Lingard Frosting forty windows in Gymnasium—W. T. Lingard Three hand saws—Pierce & Co. One hand saw—Pierce & Co. One one-man saw—Pierce & Co. Three fourths dozen files—Pierce & Co. Six 6-foot rollers—Niehaus Bros. & Co. Nine key blanks—Harris, Oswald & Noble Three key blanks—Harris, Oswald & Noble Three key blanks—J. Todt One half dozen store door locks—Huntington-Hopkins Co. Four pounds white shellac—Whittier, Fuller & Co. One gallon alcohol—Whittier, Fuller & Co. One gallon alcohol—Whittier, Fuller & Co. One gallon alcohol—Whittier, Fuller & Co. One gas-fixture hook—J. W. Savage One mortise lock—J. W. Savage Eight screws, long—J. W. Savage Splicing seven screws—W. McIntosh One 48-drawer U. S. Document Cabinet, with lock and casters— Bassett, Slemin & Co. Repairing water-closet and tank in Gymnasium building—Rich- 'ard Chaloner Material and labor repairing waste pipes and cocks in Chemical Department—Richard Chaloner Six log bolts—Dunham, Carrigan & Hayden Co. One bead plane—Dunham, Carrigan & Hayden Co. One bead plane—Dunham, Carrigan & Hayden Co. One bolts of the proper for t	25
One dozen round vents—Vulcan Iron Works	4 00
Thirty-six feet railing-Niehaus Bros. & Co.	2 16
Two hundred nounds Portland coment_I W Savage	2 00
One and without storm C A Winkness & Co	$\tilde{2}$ $\tilde{50}$
Manufold man of Angiont Italy D. W. T. W. C.	4 00 5 05
mounted map of Ancient Italy—B. Westermann & Co.	5 25
mounted map of Ancient Greece—B. Westermann & Co.	6 00
Mounted map of Ancient Rome—B. Westermann & Co	4 50
Mounted map of Ancient Gaul—B. Westermann & Co.	6 00
Mounted man of Ancient Asia Minor-B Westermann & Co	5 25
One brass-top fender—California Wire Works Dish for stove—Dalziel & Moller One dozen round vents—Vulcan Iron Works Thirty-six feet railing—Niehaus Bros. & Co. Two hundred pounds Portland cement—J. W. Savage One red rubber stamp—C. A Klinkner & Co. Mounted map of Ancient Italy—B. Westermann & Co. Mounted map of Ancient Rome—B. Westermann & Co. Mounted map of Ancient Gaul—B. Westermann & Co. Mounted map of Ancient Gaul—B. Westermann & Co. Mounted map of Ancient Asia Minor—B. Westermann & Co. Six adjustable-topped, three-legged tables—J. Baum	36 00
and monante nother antee roggen pantes 4. Daning	, 50 00
	•

One plate-glass window, 30x80—S. Wakeham         \$30 00           Twenty sacks sawdust—George C. Pape.         3 00           One dozen drawer pulls—Pierce & Co.         65           Nine white window shades—E. Hook         13 50           Keeping flag in order—A. Edgar         6 00           Cleaning pipes and repairing faucets—J. M. McNamara         7 50           Repairing boiler pipes in cottage—J. M. McNamara         3 85           Two copies San Francisco Directory—W. H. L. Corran         10 00           One hundred and sixty-five yards cocoa matting—E. Hook         115 50           Repairing plastering in library—H. L. Whitney         6 00           Repairing plastering in library—H. L. Whitney         6 00           Repairing closets, sinks, and drains—J. M. McNamara         22 00           Repairing tanks and valve—J. M. McNamara         8 00           Twelve white cedar drawing tables—John Coop         270 00           One dozen brass drawer locks—Osborn & Alexander         6 00           Four dozen perforated seats—California Furniture Mfg. Co.         10 08           Repairing electric bell—Pacific Electrical Works         4 00           One 1-inch comp. bibb—Dalziel & Moller         1 75           Insurance on books—Canton Insurance Co.         83           One dozen butts and screws—Hawley Bros. Hardware Co.         <
Twenty sacks sawdust—George C. Pape
Reeping flag in order—A. Edgar
Reeping flag in order—A. Edgar
Two copies San Francisco Directory—W. H. L. Corran   10 00
Two copies San Francisco Directory—W. H. L. Corran   10 00
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Expressage on one case apparatus—Patterson & Co.   50	Expressage on one mattress—Patterson & Co.	1 50	
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	Expressage on one case apparatus—Patterson & Co.	50	
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	Expressage on six cases, two packages—Patterson & Co.	2 00	)
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	Freight on two cases hardware—Southern Pacific Co	5 29	
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	Freight on six cases apparatus—Southern Pacific Co	19 90	,
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	One gallon sperm oil—Congdon & Co.	1 50	
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	One brass oiler—Congdon & Co	50	i
One load screened sand—R. Moore   200   One horizontal suspended ba—Crisman, Brown & Co.   55 00   One horizontal suspended ba—Crisman, Brown & Co.   55 00   Making two mattresses—H. Geiss.   38 00   Repairing swinging rings—H. Geiss.   36 00   One home trainer—Osborn & Alexander   35 00   Repairing two leather bags—H. N. Cook   20 00   Che fourth dozen rubber bags—H. N. Cook   20 00   Expressage on one box—Patterson & Co.   40 00   Expressage on one box—Patterson & Co.   25   Maclaren, Training—Gustav E. Stechert   20 00   Wood, Physical Exercise—Gustav E. Stechert   1 50   Salaries for year ending June 30, 1889   1,39    To College of Mines.   51   Two hundred and five cupels—Justinian Caire   25 89   One hundred and forty-five crucibles—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   25 89   One hundred pounds litharge—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Roasting dishes—Justinian Caire   27 8   Cas—Oakland Gas, Light, and Heat Co.   30 11 Feeso an affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1 00 Freight on wood—Southern Pacific Co.   4 13   One pair Krom's patent rolls—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   Packing and cartage—Stephen R. Krom   500 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   5 00   One roll detail paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch sun paper—H. S. Crocker & Co.   6 00   One roll detail paper—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inch ebony triangle—H. S. Crocker & Co.   6 00   One fol-inche	Repairing clock—R. W. Edwards	2 15	7
Making two matresses—   Geiss	Assorted files—Pierce & Co.	1 50	
Making two matresses—   Geiss	One load screened sand—R. Moore!	2 00	
Repairing two leather bags = H. N. Cook	One norizontal suspended bar—Urisman, Brown & Co.	55 00	٠.
Repairing two leather bags = H. N. Cook	Danaising two mattresses—H. Gelss	38 00	
Repairing two leather bags = H. N. Cook	One have desired Only of Alexander	25.00	
Two hundred and five cupels—Justinian Caire	Panairing two leather hard H. M. Cook	900	
Two hundred and five cupels—Justinian Caire	One fourth dozen rubber begs—H. N. Cook	4 50	
Two hundred and five cupels—Justinian Caire	Expressers on two mettresses Patterson & Co	4 00	
Two hundred and five cupels—Justinian Caire	Expressage on one how—Patterson & Co	95	
Two hundred and five cupels—Justinian Caire	Maclaren Training_Gustav E Stachart	2 50	
Two hundred and five cupels—Justinian Caire	Wood Physical Exercise—Gustav R. Stechert	1 50	
Two hundred and five cupels—Justinian Caire	Wood, Injuital Exclusion Gustav 13. Steelief Line	1 00	\$1,354 31
Two hundred and five cupels — Justinian Caire	Salaries for year ending June 30, 1889		1,904 82
Two hundred and five cupels—Justinian Caire			-,502
One hundred pounds litharge—Justinian Caire         3 00           Pure silica—Justinian Caire         75           Roasting dishes—Justinian Caire         2 00           Gas—Oakland Gas, Light, and Heat Co.         30 11           Fees on affidavit         50           Expressage on amalgamating machine—Patterson & Co.         1 00           Freight on wood—Southern Pacific Co.         4 13           One pair Krom's patent rolls—Stephen R. Krom         500 00           Packing and cartage—Stephen R. Krom         12 00           One roll detail paper—H. S. Crocker & Co.         4 42           One roll drawing paper—H. S. Crocker & Co.         7 80           Two rolls sun paper—H. S. Crocker & Co.         5 00           One roll d-inch sun paper—H. S. Crocker & Co.         3 60           One f-inch ebony triangle—H. S. Crocker & Co.         45           One 7-inch ebony triangle—H. S. Crocker & Co.         54           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         65           Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co.         20           Expressage on nie pieces machinery—Patterson & Co.         3 12           Forging bolts—W. McIntosh.         1 50	To College of Mines.		
One hundred pounds litharge—Justinian Caire         3 00           Pure silica—Justinian Caire         75           Roasting dishes—Justinian Caire         2 00           Gas—Oakland Gas, Light, and Heat Co.         30 11           Fees on affidavit         50           Expressage on amalgamating machine—Patterson & Co.         1 00           Freight on wood—Southern Pacific Co.         4 13           One pair Krom's patent rolls—Stephen R. Krom         500 00           Packing and cartage—Stephen R. Krom         12 00           One roll detail paper—H. S. Crocker & Co.         4 42           One roll drawing paper—H. S. Crocker & Co.         7 80           Two rolls sun paper—H. S. Crocker & Co.         5 00           One roll d-inch sun paper—H. S. Crocker & Co.         3 60           One f-inch ebony triangle—H. S. Crocker & Co.         45           One 7-inch ebony triangle—H. S. Crocker & Co.         54           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         65           Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co.         20           Expressage on nie pieces machinery—Patterson & Co.         3 12           Forging bolts—W. McIntosh.         1 50	Two hundred and five cupelsJustinian Caire	\$4 10	
One hundred pounds litharge—Justinian Caire         3 00           Pure silica—Justinian Caire         75           Roasting dishes—Justinian Caire         2 00           Gas—Oakland Gas, Light, and Heat Co.         30 11           Fees on affidavit         50           Expressage on amalgamating machine—Patterson & Co.         1 00           Freight on wood—Southern Pacific Co.         4 13           One pair Krom's patent rolls—Stephen R. Krom         500 00           Packing and cartage—Stephen R. Krom         12 00           One roll detail paper—H. S. Crocker & Co.         4 42           One roll drawing paper—H. S. Crocker & Co.         7 80           Two rolls sun paper—H. S. Crocker & Co.         5 00           One roll d-inch sun paper—H. S. Crocker & Co.         3 60           One f-inch ebony triangle—H. S. Crocker & Co.         45           One 7-inch ebony triangle—H. S. Crocker & Co.         54           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         65           Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co.         20           Expressage on nie pieces machinery—Patterson & Co.         3 12           Forging bolts—W. McIntosh.         1 50	Five hundred and forty-five crucibles—Instinian Caire	25.89	
Pure silica   Justinian Caire   75   Roasting dishes   Justinian Caire   2 00   Gas   Gas   Gas   Caire   30   Fees on affidavit   50   Expressage on amalgamating machine   Patterson & Co.   1 00   Freight on wood   Southern   Pacific Co.   4   13   One pair Krom's patent rolls   Stephen R. Krom   500   Packing and cartage   Stephen R. Krom   12   00   One roll detail paper   H. S. Crocker & Co.   4   42   One roll drawing paper   H. S. Crocker & Co.   5   00   One roll devinch sun paper   H. S. Crocker & Co.   5   00   One of lid-inch sun paper   H. S. Crocker & Co.   3   60   One 6-inch ebony triangle   H. S. Crocker & Co.   5   00   One 6-inch ebony triangle   H. S. Crocker & Co.   54   One 7-inch ebony triangle   H. S. Crocker & Co.   54   One 7-inch ebony triangle   H. S. Crocker & Co.   54   One 7-inch ebony triangle   H. S. Crocker & Co.   54   One Set inks   H. S. Crocker & Co.   54   One set inks   H. S. Crocker & Co.   54   One Set inks   H. S. Crocker & Co.   56   Expressage on one case oil   Patterson & Co.   52   Expressage on interpretation   50   Expressage on interpretation   50   Expressage on interpretation   50   Expressage on interpretation   50   Expressage on hard yards paragon   50   Expressage on three shaft hangers   Patterson & Co.   70   Expressage on three shaft hangers   Patterson & Co.   70   Expressage on three shaft hangers   75   Expressage on three shaft hangers   76   Exp	One hundred nounds litharge—Justinian Caire	8 00	
Roasting dishes—Justiman Caire	Pure sulce Instinian Caire	75	
Gas — Cakland Gas, Light, and Heat Co.   30   11   Fees on affidavit   50   Expressage on amalgamating machine—Patterson & Co.   1   00   Freight on wood—Southern Pacific Co.   1   00   Greight on wood—Southern Pacific Co.   1   00   00   00   00   00   00   00	Roasting dishes—Justinian Caire	2 00	
Fees on affidayit	Gas—Oakland Gas, Light, and Heat Co.	30 11	
A	Fees on affidavit	50	
A	Expressage on amalgamating machine—Patterson & Co.	1 00	
One pair Krom's patent rolls—Stephen R. Krom         12 00           Packing and cartage—Stephen R. Krom         12 00           One roll detail paper—H. S. Crocker & Co.         4 42           One roll drawing paper—H. S. Crocker & Co.         5 00           Two rolls sun paper—H. S. Crocker & Co.         3 60           One roll 40-inch sun paper—H. S. Crocker & Co.         3 60           One 7-inch ebony triangle—H. S. Crocker & Co.         54           One 6-inch ebony triangle—H. S. Crocker & Co.         54           One 7-inch ebony triangle—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         20           Sixty sacks English coke—Shaw & Sharp.         59 00           Expressage on one case oil—Patterson & Co.         25           Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co.         3 12           Eocke—Patterson & Co.         3 12           Forging bolts—W. McIntosh         1 50           One 48-inch T square—Edward Denny & Co.         2 25           Two and one half yards paragon—Edward Denny & Co.         70           Expressage on three shaft hangers—Patterson & Co.         360           Labor as fireman, one quarter month—Frank Mueller.         12 50           Expressage on one case tinware—Patterson & Co.         250           F	Freight on wood—Southern Pacific Co.	4 13	
Packing and cartage—Stephen R. Krom	(Ine pair Krom's natent rolls—Stephen R. Krom	500.00	
Two rolls sun paper—H. S. Crocker & Co.   7 80	Packing and cartage—Stephen R. Krom	12 00	
Two rolls sun paper—H. S. Crocker & Co.   7 80	One roll detail paper—H. S. Crocker & Co.	4 42	
Two rolls sun paper—H. S. Crocker & Co.         5 00           One roll 40-inch sun paper—H. S. Crocker & Co.         3 60           One 6-inch ebony triangle—H. S. Crocker & Co.         45           One 7-inch ebony triangle—H. S. Crocker & Co.         54           One 7-inch ebony triangle—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         63           One set inks—H. S. Crocker & Co.         202           Sixty sacks English coke—Shaw & Sharp         59 00           Expressage on one case oil—Patterson & Co.         25           Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co.         25           Expressage on nine pieces machinery—Patterson & Co.         3 12           Forging bolts—W. McIntosh         1 50           One 48-inch T square—Edward Denny & Co.         70           Expressage on three shaft hangers—Patterson & Co.         3 60           Expressage on three shaft hangers—Patterson & Co.         3 60           Labor as fireman, one quarter month—Frank Mueller         12 50           Expressage on one case tinware—Patterson & Co.         50           Gas for February—Oakland Gas Co.         2 50           Forging six steel keys—W. McIntosh         1 50           Thirteen and one half feet black pipe—John J. Menges         15			*
One 6-inch ebony triangle—H. S. Crocker & Co	Two rolls sun paper—H. S. Crocker & Co.	5 00	
One 6-inch ebony triangle—H. S. Crocker & Co	One roll 40-inch sun paper—H. S. Crocker & Co.	3 60	
One 6-inch ebony triangle—H. S. Crocker & Co	One 6-inch ebony triangle—H. S. Crocker & Co.	45	
Expressage on one case oil—Patterson & Co. 25  Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co. 500  Expressage on nine pieces machinery—Patterson & Co. 500  Gas for November—Oakland Gas Co. 312  Forging bolts—W. McIntosh 150  One 48-inch T square—Edward Denny & Co. 70  Expressage on three shaft hangers—Patterson & Co. 75  Gas for December—Oakland Gas Co. 76  Gas for December—Oakland Gas Co. 76  Expressage on one case tinware—Patterson & Co. 76  Gas for February—Oakland Gas Co. 250  Expressage on one case tinware—Patterson & Co. 250  Forging six steel keys—W. McIntosh 150  Thirteen and one half feet black pipe—John J. Menges 100  One \$\frac{2}{3}\$-inch plug and tee—John J. Menges 15  Three \$\frac{2}{3}\$-inch nipples—John J. Menges 20  Gas for March—Oakland Gas Co. 855  Expressage on one box acid—Patterson & Co. 25  Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 50  Expressage on ten cases machinery—Patterson & Co. 50  Expressage on sixteen sacks ore—Patterson & Co. 350	One 7-inch ebony triangle—H. S. Crocker & Co	54	
Expressage on one case oil—Patterson & Co. 25  Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co. 500  Expressage on nine pieces machinery—Patterson & Co. 500  Gas for November—Oakland Gas Co. 312  Forging bolts—W. McIntosh 150  One 48-inch T square—Edward Denny & Co. 70  Expressage on three shaft hangers—Patterson & Co. 75  Gas for December—Oakland Gas Co. 76  Gas for December—Oakland Gas Co. 76  Expressage on one case tinware—Patterson & Co. 76  Gas for February—Oakland Gas Co. 250  Expressage on one case tinware—Patterson & Co. 250  Forging six steel keys—W. McIntosh 150  Thirteen and one half feet black pipe—John J. Menges 100  One \$\frac{2}{3}\$-inch plug and tee—John J. Menges 15  Three \$\frac{2}{3}\$-inch nipples—John J. Menges 20  Gas for March—Oakland Gas Co. 855  Expressage on one box acid—Patterson & Co. 25  Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 50  Expressage on ten cases machinery—Patterson & Co. 50  Expressage on sixteen sacks ore—Patterson & Co. 350	One 6-inch ebony triangle—H. S. Crocker & Co.	54	
Expressage on one case oil—Patterson & Co. 25  Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co. 500  Expressage on nine pieces machinery—Patterson & Co. 500  Gas for November—Oakland Gas Co. 312  Forging bolts—W. McIntosh 150  One 48-inch T square—Edward Denny & Co. 70  Expressage on three shaft hangers—Patterson & Co. 75  Gas for December—Oakland Gas Co. 76  Gas for December—Oakland Gas Co. 76  Expressage on one case tinware—Patterson & Co. 76  Gas for February—Oakland Gas Co. 250  Expressage on one case tinware—Patterson & Co. 250  Forging six steel keys—W. McIntosh 150  Thirteen and one half feet black pipe—John J. Menges 100  One \$\frac{2}{3}\$-inch plug and tee—John J. Menges 15  Three \$\frac{2}{3}\$-inch nipples—John J. Menges 20  Gas for March—Oakland Gas Co. 855  Expressage on one box acid—Patterson & Co. 25  Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 50  Expressage on ten cases machinery—Patterson & Co. 50  Expressage on sixteen sacks ore—Patterson & Co. 350	One 7-inch ebony triangle—H. S. Crocker & Co.	63	
Expressage on one case oil—Patterson & Co. 25  Expressage on six thousand seven hundred and eighty pounds coke—Patterson & Co. 500  Expressage on nine pieces machinery—Patterson & Co. 500  Gas for November—Oakland Gas Co. 312  Forging bolts—W. McIntosh 150  One 48-inch T square—Edward Denny & Co. 70  Expressage on three shaft hangers—Patterson & Co. 75  Gas for December—Oakland Gas Co. 76  Gas for December—Oakland Gas Co. 76  Expressage on one case tinware—Patterson & Co. 76  Gas for February—Oakland Gas Co. 250  Expressage on one case tinware—Patterson & Co. 250  Forging six steel keys—W. McIntosh 150  Thirteen and one half feet black pipe—John J. Menges 100  One \$\frac{2}{3}\$-inch plug and tee—John J. Menges 15  Three \$\frac{2}{3}\$-inch nipples—John J. Menges 20  Gas for March—Oakland Gas Co. 855  Expressage on one box acid—Patterson & Co. 25  Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 50  Expressage on ten cases machinery—Patterson & Co. 50  Expressage on sixteen sacks ore—Patterson & Co. 350	One set inks—H. S. Crocker & Co.	2 02	
Expressage on nine pieces machinery—Patterson & Co. 5 00 Gas for November—Oakland Gas Co. 3 12 Forging botts—W. McIntosh 1 50 One 48-inch T square—Edward Denny & Co. 225 Two and one half yards paragon—Edward Denny & Co. 70 Expressage on three shaft hangers—Patterson & Co. 75 Gas for December—Oakland Gas Co. 360 Labor as fireman, one quarter month—Frank Mueller 12 50 Expressage on one case tinware—Patterson & Co. 50 Gas for February—Oakland Gas Co. 250 Forging six steel keys—W. McIntosh 150 Thirteen and one half feet black pipe—John J. Menges 81 One 1-inch ell—John Menges 100 One 3-inch plug and tee—John J. Menges 155 Three 3-inch nipples—John J. Menges 24 One 3-inch union—John J. Menges 226 Gas for March—Oakland Gas Co. 855 Expressage on one box acid—Patterson & Co. 25 Expressage on one box from railroad—Patterson & Co. 50 Expressage on hardware—Patterson & Co. 150 Expressage on ten cases machinery—Patterson & Co. 350 Expressage on sixteen sacks ore—Patterson & Co. 200	Sixty sacks English coke—Shaw & Sharp	<b>59 00</b>	
Expressage on nine pieces machinery—Patterson & Co. 5 00 Gas for November—Oakland Gas Co. 3 12 Forging botts—W. McIntosh 1 50 One 48-inch T square—Edward Denny & Co. 225 Two and one half yards paragon—Edward Denny & Co. 70 Expressage on three shaft hangers—Patterson & Co. 75 Gas for December—Oakland Gas Co. 360 Labor as fireman, one quarter month—Frank Mueller 12 50 Expressage on one case tinware—Patterson & Co. 50 Gas for February—Oakland Gas Co. 250 Forging six steel keys—W. McIntosh 150 Thirteen and one half feet black pipe—John J. Menges 81 One 1-inch ell—John Menges 100 One 3-inch plug and tee—John J. Menges 155 Three 3-inch nipples—John J. Menges 24 One 3-inch union—John J. Menges 226 Gas for March—Oakland Gas Co. 855 Expressage on one box acid—Patterson & Co. 25 Expressage on one box from railroad—Patterson & Co. 50 Expressage on hardware—Patterson & Co. 150 Expressage on ten cases machinery—Patterson & Co. 350 Expressage on sixteen sacks ore—Patterson & Co. 200	Expressage on one case oil—Patterson & Co.	25	
Expressage on nine pieces machinery—Patterson & Co. 5 00 Gas for November—Oakland Gas Co. 3 12 Forging botts—W. McIntosh 1 50 One 48-inch T square—Edward Denny & Co. 225 Two and one half yards paragon—Edward Denny & Co. 70 Expressage on three shaft hangers—Patterson & Co. 75 Gas for December—Oakland Gas Co. 360 Labor as fireman, one quarter month—Frank Mueller 12 50 Expressage on one case tinware—Patterson & Co. 50 Gas for February—Oakland Gas Co. 250 Forging six steel keys—W. McIntosh 150 Thirteen and one half feet black pipe—John J. Menges 81 One 1-inch ell—John Menges 100 One 3-inch plug and tee—John J. Menges 155 Three 3-inch nipples—John J. Menges 24 One 3-inch union—John J. Menges 226 Gas for March—Oakland Gas Co. 855 Expressage on one box acid—Patterson & Co. 25 Expressage on one box from railroad—Patterson & Co. 50 Expressage on hardware—Patterson & Co. 150 Expressage on ten cases machinery—Patterson & Co. 350 Expressage on sixteen sacks ore—Patterson & Co. 200	Expressage on six thousand seven hundred and eighty pounds	/	
One 48-inch         T square—Edward Denny & Co.         2 25           Two and one half yards paragon—Edward Denny & Co.         70           Expressage on three shaft hangers—Patterson & Co.         75           Gas for December—Oakland Gas Co.         3 60           Labor as fireman, one quarter month—Frank Mueller         12 50           Expressage on one case tinware—Patterson & Co.         50           Gas for February—Oakland Gas Co.         2 50           Forging six steel keys—W. McIntosh         1 50           Thirteen and one half feet black pipe—John J. Menges         81           One 3-inch ell—John Menges         10           One 3-inch plug and tee—John J. Menges         15           Three 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         8 56           Expressage on one box acid—Patterson & Co.         25           Expressage on hardware—Patterson & Co.         50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00			
One 48-inch         T square—Edward Denny & Co.         2 25           Two and one half yards paragon—Edward Denny & Co.         70           Expressage on three shaft hangers—Patterson & Co.         75           Gas for December—Oakland Gas Co.         3 60           Labor as fireman, one quarter month—Frank Mueller         12 50           Expressage on one case tinware—Patterson & Co.         50           Gas for February—Oakland Gas Co.         2 50           Forging six steel keys—W. McIntosh         1 50           Thirteen and one half feet black pipe—John J. Menges         81           One 3-inch ell—John Menges         10           One 3-inch plug and tee—John J. Menges         15           Three 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         8 56           Expressage on one box acid—Patterson & Co.         25           Expressage on hardware—Patterson & Co.         50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00	Expressage on nine pieces machinery—Patterson & Co.	5 00	
One 48-inch         T square—Edward Denny & Co.         2 25           Two and one half yards paragon—Edward Denny & Co.         70           Expressage on three shaft hangers—Patterson & Co.         75           Gas for December—Oakland Gas Co.         3 60           Labor as fireman, one quarter month—Frank Mueller         12 50           Expressage on one case tinware—Patterson & Co.         50           Gas for February—Oakland Gas Co.         2 50           Forging six steel keys—W. McIntosh         1 50           Thirteen and one half feet black pipe—John J. Menges         81           One 3-inch ell—John Menges         10           One 3-inch plug and tee—John J. Menges         15           Three 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         8 56           Expressage on one box acid—Patterson & Co.         25           Expressage on hardware—Patterson & Co.         50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00	Gas for November—Uakland Gas Co.	3 12	
One 48-inch         T square—Edward Denny & Co.         2 25           Two and one half yards paragon—Edward Denny & Co.         70           Expressage on three shaft hangers—Patterson & Co.         75           Gas for December—Oakland Gas Co.         3 60           Labor as fireman, one quarter month—Frank Mueller         12 50           Expressage on one case tinware—Patterson & Co.         50           Gas for February—Oakland Gas Co.         2 50           Forging six steel keys—W. McIntosh         1 50           Thirteen and one half feet black pipe—John J. Menges         81           One 3-inch ell—John Menges         10           One 3-inch plug and tee—John J. Menges         15           Three 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         8 56           Expressage on one box acid—Patterson & Co.         25           Expressage on hardware—Patterson & Co.         50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00	rorging polts—W. McIntosh	1 50	
Gas for December—Oakland Gas Co.       3 60         Labor as fireman, one quarter month—Frank Mueller       12 50         Expressage on one case tinware—Patterson & Co.       50         Gas for February—Oakland Gas Co.       2 50         Forging six steel keys—W. McIntosh       1 50         Thirteen and one half feet black pipe—John J. Menges       81         One 3-inch ell—John Menges       10         One 3-inch plug and tee—John J. Menges       15         Three 3-inch union—John J. Menges       24         One 3-inch union—John J. Menges       20         Gas for March—Oakland Gas Co.       8 56         Expressage on one box acid—Patterson & Co.       25         Expressage on hardware—Patterson & Co.       50         Expressage on ten cases machinery—Patterson & Co.       3 50         Expressage on sixteen sacks ore—Patterson & Co.       2 00	Une 48-inch il sonare	2 25	
Gas for December—Oakland Gas Co.       3 60         Labor as fireman, one quarter month—Frank Mueller       12 50         Expressage on one case tinware—Patterson & Co.       50         Gas for February—Oakland Gas Co.       2 50         Forging six steel keys—W. McIntosh       1 50         Thirteen and one half feet black pipe—John J. Menges       81         One 3-inch ell—John Menges       10         One 3-inch plug and tee—John J. Menges       15         Three 3-inch union—John J. Menges       24         One 3-inch union—John J. Menges       20         Gas for March—Oakland Gas Co.       8 56         Expressage on one box acid—Patterson & Co.       25         Expressage on hardware—Patterson & Co.       50         Expressage on ten cases machinery—Patterson & Co.       3 50         Expressage on sixteen sacks ore—Patterson & Co.       2 00	I wo and one nair yards paragon—Edward Denny & Co.	70	*
250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250	Expressage on three snatt nangers—Patterson & Co.	75	
250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250	Tabon as from an anarton manth. There's March	5 60	
250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250   250	Expressed on one constinuous Parts and Mueller	12 50	
One 3-inch plug and tee—John J. Menges         15           Three 3-inch nipples—John J. Menges         24           One 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         855           Expressage on one box acid—Patterson & Co.         25           Expressage on one box from railroad—Patterson & Co.         50           Expressage on hardware—Patterson & Co.         1 50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00	Cas for February Oakland Cas Co	200	
One 3-inch plug and tee—John J. Menges         15           Three 3-inch nipples—John J. Menges         24           One 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         855           Expressage on one box acid—Patterson & Co.         25           Expressage on one box from railroad—Patterson & Co.         50           Expressage on hardware—Patterson & Co.         1 50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00	Foreing six steel kove W MoIntoch	2 50	
One 3-inch plug and tee—John J. Menges         15           Three 3-inch nipples—John J. Menges         24           One 3-inch union—John J. Menges         24           One 3-inch union—John J. Menges         20           Gas for March—Oakland Gas Co.         855           Expressage on one box acid—Patterson & Co.         25           Expressage on one box from railroad—Patterson & Co.         50           Expressage on hardware—Patterson & Co.         1 50           Expressage on ten cases machinery—Patterson & Co.         3 50           Expressage on sixteen sacks ore—Patterson & Co.         2 00	Thirteen and one half feet black pine John I Mongos	1 90	
One §-inch plug and tee—John J. Menges. 15 Three ‡-inch nipples—John J. Menges 24 One ‡-inch nipples—John J. Menges 20 Gas for March—Oakland Gas Co. 855 Expressage on one box acid—Patterson & Co. 25 Expressage on one box from railroad—Patterson & Co. 50 Expressage on hardware—Patterson & Co. 150 Expressage on ten cases machinery—Patterson & Co. 350 Expressage on sixteen sacks ore—Patterson & Co. 200	One Linch ell. Tohn Menges	10	
Three \( \frac{1}{2}\)-inch nipples—John J. Menges       24         One \( \frac{3}{2}\)-inch union—John J. Menges       20         Gas for March—Oakland Gas Co.       8         Expressage on one box acid—Patterson & Co.       25         Expressage on one box from railroad—Patterson & Co.       50         Expressage on hardware—Patterson & Co.       1       50         Expressage on ten cases machinery—Patterson & Co.       3       50         Expressage on sixteen sacks ore—Patterson & Co.       2       00	One 2 inch plug and tee_ John I Manges	10	, in the second
One 3-inch union—John J. Menges.       20         Gas for March—Oakland Gas Co.       8 55         Expressage on one box acid—Patterson & Co.       25         Expressage on one box from railroad—Patterson & Co.       50         Expressage on hardware—Patterson & Co.       1 50         Expressage on ten cases machinery—Patterson & Co.       3 50         Expressage on sixteen sacks ore—Patterson & Co.       2 00	Three & inch ninnles—John J. Menges	94	- 4
Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 150  Expressage on ten cases machinery—Patterson & Co. 350  Expressage on sixteen sacks ore—Patterson & Co. 200	One & inch union_Iohn I Manges	2/4± 90	
Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 150  Expressage on ten cases machinery—Patterson & Co. 350  Expressage on sixteen sacks ore—Patterson & Co. 200	Gas for March—Oakland Gas Co	2U 0 55	, di
Expressage on one box from railroad—Patterson & Co. 50  Expressage on hardware—Patterson & Co. 150  Expressage on ten cases machinery—Patterson & Co. 350  Expressage on sixteen sacks ore—Patterson & Co. 200	Expressage on one hox acid—Patterson & Co	95	3
Expressage on hardware—Patterson & Co	Expressage on one box from railroad—Patterson & Co	20 50	
Expressage on ten cases machinery—Patterson & Co			
Expressage on sixteen sacks ore—Patterson & Co	Expressage on ten cases machinery—Patterson & Co.		
Expressage on hardware, glass, etc.—Patterson & Co	Expressage on sixteen sacks ore—Patterson & Co.		. 3
	Expressage on hardware, glass, etc.—Patterson & Co.		. 4
		2 00	

M A C.	90.05	
Expressage on one package rods—Patterson & Co.	\$0.25	
Expressage on one tank petroleum—Patterson & Co.	3 50	
Expressage on one case gasoline, castings, etc.—Patterson & Co. Gas for April—Oakland Gas Co.	4 00 14 85	
Twenty-five packages matches—Joseph McClain	1 00	
Expressage on one wrench—Patterson & Co.	35	
Expressage on one box glass—Patterson & Co	50	
Gas for May-Oakland Gas Co	22 55	
Expressage on one box glass—Patterson & Co. Gas for May—Oakland Gas Co. Expressage on two cases crucibles—Patterson & Co.	1 25	
Expressage on three sheets iron—Patterson & Co.	1 00	
	l	\$790 70
Salaries for the year ending June 30, 1889		7,748 00
The University Printing Office.		
There	807 70	
ExpressageType	\$27 70	
Toola	321 06	
ToolsPaper	·243 00 99 43	
Ink.	23 55	
Miscellaneous	9 25	
MIDOCIMIOO OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF		723 59
Salaries for year ending June 30, 1889		720 00
To College of Civil Engineering.		
Expressage on two boxes, one package—Patterson & Co.	<b>\$</b> 0 75	
Expressage on one package—Patterson & Co.  Expressage on one box—Patterson & Co.	25	
Expressage on one box—Patterson & Co.	25	
Assorted files—Pierce & Co	2 00	
Chamois skin—Greensfelder & Bettelheim	2 00	
Zinc—E. F. Delger	4 00	
Pipe—E. F. Delger Expressage on two fenders—Patterson & Co	1 00	
Expressage on two lenders—Patterson & Co.	50 25	
Expressage on one package returned—Patterson & Co.  Repairing door to thermograph—California Electrical Works	30	
Two trips to city and return—Carl Rabe	65	
Expressage on two jars—Patterson & Co.	50	
Filing two saws—Carl Rabe	40	
Two railroad fares—Carl Rabe	10	
One gross brass screws—Huntington-Hopkins Co.	1 50	
One yard velvet—S. Jacobs & Son	1 00	
Sheet wadding—S. Jacobs & Son	35	
Elgin cloth—S. Jacobs & Son	20	
One bottle treasury ink—H. S. Crocker & Co.	\ <u>10</u>	
Two packages tacks—H. Rosekrans & Co.	10	
Sixteen yards cord and two tassels—E. Hook	50	
One half dozen shutter screws—Hawley Bros. Hardware Co.	15	
One gross bands—W. B. Hardy	90	
Two tring to city and notions Corl Dake	1 25	
One gross brass screws—Huntington-Hopkins Co. One yard velvet—S, Jacobs & Son Sheet wadding—S. Jacobs & Son Elgin cloth—S, Jacobs & Son One bottle treasury ink—H, S, Crocker & Co, Two packages tacks—H, Rosekrans & Co. Sixteen yards cord and two tassels—E. Hook One half dozen shutter screws—Hawley Bros. Hardware Co. One gross bands—W, B, Hardy One half gross bands—W, B, Hardy Two trips to city and return—Carl Rabe One bill—Pierce & Co. Two iron brackets—D, H, Frye	50 50	
Two iron brackets—D. H. Frye	1 25	•
One case E oil Loganh McClain	3 30	
One case E. oil—Joseph McClain One box candles—Joseph McClain	3 50	
One Yale lock—Pierce & Co.	1 00	
One has and staple—Pierce & Co.	20	
One hasp and staple—Pierce & Co	2 50	
One earthen crock—Quade & Straut.	75	
One earthen crock—Quade & Straut One 5-gallon demijohn—Quade & Straut	2 50	
Expressage on two packages—Patterson & Co. Expressage on six packages paper—Patterson & Co.	25	
Expressage on six packages paper—Patterson & Co.	50	
Expressage on one roll baner—Patterson & Co	50	-
Expressage on one package—Patterson & Co	25	
Repairing sextant—A. Lietz & Co.	4 50	
Picking locks and new keys—D. Siesbuttel Assorted adjusting pins—Pacific Coast Electrical Co. Pencils—Sanborn, Vail & Co. One trip to San Francisco—Carl Rabe	1 00	
Pareils Sanborn Voil & Co.	1 40 1 00	
One trin to San Francisco Carl Raha	30	
One sextent Col R H Savage	25 00	
One sextant—Col. R. H. Savage One quart Stafford's universal ink—Dutton & Partridge	25 00 75	
Six 250-page No. 10 records—Dutton & Partridge	5 40	<i>*</i>
One dozen No. 254 memoranda—Dutton & Partridge	5 00	
	5 44	
\$ .		•

Expressage on one package—Patterson & Co.  Expressage on one package—Patterson & Co.  Reading glass for barometer—A. Lietz & Co.  Mounting twelve large photos—W. W. Dames Iron work for holding doors—Nelson & McLellan  Expressage on one package—Patterson & Co.  Repairing solar attachment—A. Lietz & Co.  One dozen adjusting pins—A. Lietz & Co.  Two screwdrivers—A Lietz & Co.  Two cases E. oil—Joseph McClain One gross parlor matches—Joseph McClain Clerical services of W. E. Proctor	<b>\$0</b> 25	
Expressage on one package—Patterson & Co	25	
Reading glass for barometer—A. Lietz & Co.	5 00	
Mounting twelve large photos—W. W. Dames	5 00	
Expression on one peckage Patterson & Co	8 00 25	
Renairing solar attachment—A. Lietz & Co.	4 50	
One dozen adjusting pins—A. Lietz & Co.	1 50	
Two screwdrivers—A Lietz & Co.	1 00	
Two cases E. oil—Joseph McClain	7 00	
One gross parlor matches—Joseph McClain	2 50	
Clerical services of W. E. Proctor	25 00	
Four 10-pound cans chromic acid—California Electrical Works	10 00	
Twelve carbons to order—California Electrical Works	2 40 3 00	
Twelve zincs—California Electrical Works Twelve zincs—California Electrical Works	3 00	
Renairing can—Dalziel & Moller	$\overset{\circ}{25}$	
One return trip to Oakland—Carl Rabe	20 20	
Three return trips to San Francisco—Carl Rabe	75	
Three return trips to San Francisco—Carl Rabe	75	
Two return trips to Oakland—Carl Rabe	40	
New rod to thermometer—R. W. Edwards	50	
Expressage from Washington—Wells, Fargo & Co.	40	
Brick work and labor erecting stone pier—H. L. Whitney	20 00	
Renairs to thermograph—E. J. Woods	$\begin{array}{c} 2 \ 00 \\ 10 \ 00 \end{array}$	
Expressage on two hoves—Patterson & Co	10 00 50	
Twelve zincs—California Electrical Works.  Repairing cap—Dalziel & Moller One return trip to Oakland—Carl Rabe Three return trips to San Francisco—Carl Rabe Three return trips to San Francisco—Carl Rabe Two return trips to Oakland—Carl Rabe New rod to thermometer—R. W. Edwards Expressage from Washington—Wells, Fargo & Co. Brick work and labor erecting stone pier—H. L. Whitney Addition to roof shutter—Nelson & McLellan Repairs to thermograph—E. L. Woods Expressage on two boxes—Patterson & Co. Expressage on one box—Patterson & Co.	25	
One glass wedge—Fauth & Co.  Two dozen adjusting pins—Fauth & Co.  Subscription to "Sidereal Messenger" for 1889—Wm. W. Payne.  Two 3-quart agate pudding pans—W. W. Montague & Co.  One 21-quart agate dish pan—W. W. Montague & Co.  One 4-pint agate dipper—W. W. Montague & Co.  One agate funnel—W. W. Montague & Co.	7 50	
Two dozen adjusting pins—Fauth & Co.	3 50	
Subscription to "Sidereal Messenger" for 1889—Wm. W. Payne.	2 00	
Two 3-quart agate pudding pans—W. W. Montague & Co.	70	
One 21-quart agate dish pan—W. W. Montague & Co	2 85	
One 4-pint agate dipper—W. W. Montague & Co.	50	
Case W W Montague & Co.	40 15	
Case—W. W. Montague & Co. One pair rubber gloves—Hawley Bros. Hardware Co.	2 00	
Three nounds mercury—Hawley Bros. Hardware Co.	2 40	
Three pounds mercury—Hawley Bros. Hardware Co. One thousand brass tacks, one paper copper tacks—Hawley Bros.	2 20	
Hardware Co.	1 00	
Hardware Co. Two quires sandpaper—Hawley Bros. Hardware Co. Services of W. E. Proctor	50	
Services of W. E. Proctor	2 50	
Two 3-quart pudding pans—W. W. Montague & Co.	70	
Repairing recording thermometer—Dillon & Co.	75	
Two 3-quart pudding pans—W. W. Montague & Co.  Repairing recording thermometer—Dillon & Co.  One case from W. W. Montague & Co.—Berkeley Express  Twenty-two and one half pounds lead—Justinian Caire  One 2 andle power lamp. California Hostrical Works	25 1 35	
Expressage on one box—Patterson & Co.	25	
Expressage on one box—Patterson & Co. One 21-quart agate pan—W. W. Montague & Co. One dipper and one funnel—W. W. Montague & Co.	2 00	
One dipper and one funnel—W. W. Montague & Co.	1 05	
Lead balance-weights—J. B. Jardine	5 00	
Lead balance-weights—J. B. Jardine One patent tellurian—The Bancroft Co\$25 00 One orrery, brass tripod—The Bancroft Co		
One orrery, brass tripod—The Bancroft Co. 20 00		
<del></del>		
Less 20 per cent 9 00		
Less 20 per cent 9 00	36 00	
Services making blue prints—W. E. Proctor	2 00	
Services making blue prints—W. E. Proctor One thousand 1-cent stamps—N. B. Byrne	10 00	
Fifty packages sal ammoniac—California Electrical Works	4 50	•
Expressage on two bundles weights—Patterson & Co.	l 50	
Axes for practice work—W. G. Raymond	5 00	
Axes for practice work—W. G. Raymond	2 00	**
		\$2
Salaries for the year ending June 30, 1889		10,5
To Museum.		
_ ·		
Expressage	<b>\$17</b> 25	
Supplies	33 94	
Specimens	126 53	
Postage	10 00	1
Galaries for the mean anding Tune 20, 1990		1,2
Salaries for the year ending June 30, 1889		1,2

To Department of Mineralogy.	
Distinue foil Instinion Coiro	<u>.</u>
Platinum foil—Justinian Caire	6
Two dozen reagent bottles—Justinian Caire 6 0	ň l
One half grm. chloride caesium—Justinian Caire 3 2	š
Five grm. thallium—Justinian Caire	5
Two ounces nitrate silver—Justinian Caire	
Long handled tongs—Justinian Caire 2 0	
One half grm. chloride caesium—Justinian Caire 3 2 Five grm. thallium—Justinian Caire 1 2 Two ounces nitrate silver—Justinian Caire 1 8 Long handled tongs—Justinian Caire 2 0 One dozen drawing pins—Justinian Caire 5	0   .
	E
0ff on tongs	n
	<u>~</u>
\$22 0   Off on drawing pins	
	001.05
Eighteen connectors—California Electrial Works One pound wire—California Electrical Works Five connectors—California Electrical Works One 2-point switch—California Electrical Works One 1-point switch—California Electrical Works Six binding posts—California Electrical Works Three thousand cubic feet gas—Oakland Gas, Light, and Heat Co. Two thousand one hundred cubic feet gas—Oakland Gas, Light, and Heat Co.	2 70
One pound wire—California Electrical Works	50
Five connectors—California Electrical Works	1 00
One 2-point switch—California Electrical Works	60
One 1-point switch—California Electrical Works	50
Six binding posts—California Electrical Works	1 20 6 60
Two thousand one hundred on his foet cas. Oakland Gos. Light	-1 000
and Heat Co.	4 64
Right hundred cubic feet gas-Oakland Gas, Light, and Heat Co.	$\tilde{2}$ $\tilde{2}$
and Heat Co.  Eight hundred cubic feet gas—Oakland Gas, Light, and Heat Co One thousand one hundred cubic feet gas—Oakland Gas, Ligh	t, i
and Heat Co.  Expressage on three boxes—Patterson & Co.  Expressage on two boxes—Patterson & Co. One pivot stool in leather—Geo. H. Fuller Three quires Munktell's paper—Justinian Caire Five quires white com. paper—Justinian Caire Twelve plain beakers—Justinian Caire. Two nests Bohemian beakers—Justinian Caire One dozen 3-inch watch glasses—Instinian Caire	3 05
Expressage on three boxes—Patterson & Co.	1 00
Expressage on two boxes—Patterson & Co.	. 50
Three guines Munistellis money Trestinies Coire	7 50 4 50
Rive quires white com paper—Justinian Caire	1 10
Twelve plain beakers—Justinian Caire	3 00
Two nests Bohemian beakers—Justinian Caire	3 00
One dozen 3-inch watch glasses—Justinian Caire	1 80
One half dozen 5-inch watch glasses—Justinian Caire	1 80
One half dozen 6-inch watch glasses—Justinian Caire	2 25
One dozen 3-inch watch glasses—Justinian Caire One half dozen 5-inch watch glasses—Justinian Caire One half dozen 6-inch watch glasses—Justinian Caire One pair scissors—Justinian Caire Two dozen 6-inch test tubes—Justinian Caire Two dozen 5-inch test tubes—Justinian Caire	75 75
Two dozen 5-inch test tubes—Justinian Caire	75
Six 2-inch funnels—Justinian Caire	75
Six 2-inch funnels—Justinian Caire Six Hoffman clamps—Justinian Caire Three pinch cocks—Justinian Caire Two dozen plain tumblers—Justinian Caire	2 40
Three pinch cocks—Justinian Caire	75
Two dozen plain tumblers—Justinian Caire	2 00
One platinum crucible—Justinian Caire	8 50
One retest clamp. Tustinian Caire	24 00 1 50
Ashestos sheet—Instinian Caire	75
One platinum crucible—Justinian Caire One platinum crucible—Justinian Caire One retort clamp—Justinian Caire Asbestos sheet—Justinian Caire One apparatus—Justinian Caire One silver crucible—Justinian Caire One silver crucible—Justinian Caire	1 75
One silver crucible—Justinian Caire	4 50
One steel tape—Justinian Caire	1 75
One pair scissors—Justinian Caire	1 <u>00</u>
One coll bettern Testinian Caire	75 20 00
Four pounds abromic said Tustinian Caire	1 85
Twelve excelsion crucibles—Justinian Caire	90
Twelve French crucibles—Justinian Caire	80
One machinist's hammer—Justinian Caire	. 75
Three evaporating dishes—Justinian Caire	1 50
Six pounds brass fastenings—Justinian Caire	1 80
Une puney—Justiman Caire	5 00 15 00
Expressing on two boxes Pottorson & Co	15 00
Expressage on one stool—Patterson & Co	50
One screw plug—D. H. Frve	25
One brass piece—W. T. Garratt & Co.	60
Two 15-inch bolts—D. H. Frye	1 50
One hundred 1-cent stamps—N. B. Byrne	1 00
Expressage—Wells, Fargo & Co.	1 15
One apparatus—Justinian Caire One steel tape—Justinian Caire One pair scissors—Justinian Caire One pair scissors—Justinian Caire One half dozen files—Justinian Caire One 6-cell battery—Justinian Caire Four pounds chromic acid—Justinian Caire Twelve excelsior crucibles—Justinian Caire Twelve French crucibles—Justinian Caire One machinist's hammer—Justinian Caire One machinist's hammer—Justinian Caire One machinist's hammer—Justinian Caire Six pounds brass fastenings—Justinian Caire One pulley—Justinian Caire Microscopic slide—Justinian Caire Expressage on two boxes—Patterson & Co. Expressage on one stool—Patterson & Co. One screw plug—D. H. Frye One brass piece—W. T. Garratt & Co. Two 15-inch bolts—D. H. Frye One hundred 1-cent stamps—N. B. Byrne Expressage—Wells, Fargo & Co. Two hundred cubic feet gas—Oakland Gas Co. Eight hundred cubic feet gas—Oakland Gas Co.	55 2 20
Augus numared cubic feet gas—Uaktand Gas Co	1 2 20

	1	
One mason's hammer—Abner Doble \$3 20 Four granite tools—Abner Doble 1 20		
Four small stone tools—Abner Doble 125		
One magen's hammer Abner Doble		
One mason's hammer—Abner Doble 150 One hand hammer—Abner Doble 150	]	j.
One nand nammer—Anner Doble	]	١.
<b>\$8 65</b>	İ	
Less		
	\$8 00	
One hundred and twenty-five carbons, 7x16-Justinian Caire.	2 50	,
One 2-inch steel square—Justinian Caire		
One 3-inch steel square-Justinian Caire		
Two dozen plain bottles—Justinian Caire	1 00	
Rubber tubing—Justinian Caire	1 50	
Rubber tubing—Justinian Caire————————————————————————————————————	55	
Six granite points—Abner Doble		
Four granite chisels—Abner Doble Six sandstone points—Abner Doble Six sandstone chisels—Abner Doble	4 65	
Six sandstone points—Abner Doble	9.00	
Six sandstone chisels—Abner Doble	3 00	
Matches—Justinian Caire	50	,
Ten gallons gasoline—Justinian Caire	.1 80	
Hydrochloric acid—Justinian Caire	90	. ,
Hydrochloric acid—Justinian Caire————————————————————————————————————	1 25	
Two inkstands—Justinian Caire	2 50	i
Two mucilage bottles—Justinian Caire	1	
One dozen beakers—Justinian Caire	3 84	
One dozen beakers—Justinian Caire—Four feet platinum wire—Justinian Caire————————————————————————————————————	1 00	
One hundred pounds emery—Justinian Caire	10 00	
One quarter pound C. P. zinc—Justinian Caire— Four hundred 2-cent stamps—N. B. Byrne	45	
Four hundred 2-cent stamps—N. B. Byrne	8 00	*
Two hundred 1-cent stamps—N. B. Byrne	2 00	1
Two hundred 1-cent stamps—N. B. Byrne  Expressage on five packages—Patterson & Co.  One hundred cubic feet gas—Oakland Gas Co.	1 50	
One hundred cubic feet gas—Oakland Gas Co	30	
One thousand two hundred cubic feet gas—Oakland Gas Co	3 30	
One hundred cubic feet gas—Oakland Gas Co.	30	ľ
One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  Living the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t	55 2 05	
One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  Freight on one box granite—Southern Pacific Co.	30 55 3 95	
One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co.  Expressage on one box granite—Patterson & Co.	ĐŲ	
One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  Freight on one box granite—Southern Pacific Co.	ĐŲ	<b>\$948</b> f3
One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co.  Expressage on one box granite—Patterson & Co.	ĐŲ	\$248 <b>6</b> 3
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.	50	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.	50	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.	50	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.	50	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.	50	\$248 <b>6</b> 3
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.	50	\$248 <b>6</b> 3
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works. Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire.	\$24 00 1 74 3 35 40 1 70	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire Plaster of Paris—Justinian Caire	\$24 00 1 74 3 35 40 1 70 25	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works. Five sixteenths of a pound silk-covered German silver wire—James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire. Plaster of Paris—Justinian Caire Lamp black—Justinian Caire	\$24 00 1 74 3 35 40 1 70 25 25	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire Plaster of Paris—Justinian Caire Lamp black—Justinian Caire One pound steel wire—Justinian Caire	\$24 00 1 74 3 35 40 1 70 25 1 25	\$248 68
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works. Five sixteenths of a pound silk-covered German silver wire—James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire. Plaster of Paris—Justinian Caire Lamp black—Justinian Caire One pound steel wire—Justinian Caire. Three spools al. wire—Osborn & Alexander Four spools soft brass wire—Osborn & Alexander	\$24 00 \$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80	\$248 68
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works. Five sixteenths of a pound silk-covered German silver wire—James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire. Plaster of Paris—Justinian Caire Lamp black—Justinian Caire One pound steel wire—Justinian Caire. Three spools al. wire—Osborn & Alexander Four spools soft brass wire—Osborn & Alexander	\$24 00 \$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80	\$248 6
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire. Plaster of Paris—Justinian Caire Lamp black—Justinian Caire One pound steel wire—Justinian Caire Three spools al. wire—Osborn & Alexander Four spools soft brass wire—Osborn & Alexander Three spools soft brass wire—Osborn & Alexander Three spools spring wire—Osborn & Alexander	\$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80 25 60	\$248 63
One hundred cubic feet gas—Oakland Gas Co. Two hundred cubic feet gas—Oakland Gas Co. Freight on one box granite—Southern Pacific Co. Expressage on one box granite—Patterson & Co. Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co. Two silver cups—Justinian Caire One pound shellac—Justinian Caire Two hundred assorted bung corks—Justinian Caire. Plaster of Paris—Justinian Caire Lamp black—Justinian Caire One pound steel wire—Justinian Caire Three spools al. wire—Osborn & Alexander Four spools soft brass wire—Osborn & Alexander Three spools soft brass wire—Osborn & Alexander Three spools spring wire—Osborn & Alexander	\$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80 25 60	\$248 &
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One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  Freight on one box granite—Southern Pacific Co.  Expressage on one box granite—Patterson & Co.  Expressage on two boxes—Patterson & Co.  Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works.  Five sixteenths of a pound silk-covered German silver wire—James W. Queen & Co.  Two silver cups—Justinian Caire One pound shellac—Justinian Caire One pound shellac—Justinian Caire.  Two hundred assorted bung corks—Justinian Caire.  Plaster of Paris—Justinian Caire One pound steel wire—Justinian Caire.  Three spools al. wire—Osborn & Alexander  Three spools soft brass wire—Osborn & Alexander One spool soft brass wire—Osborn & Alexander  Three spools copper wire—Osborn & Alexander  Three spools copper wire—Osborn & Alexander  Three spools copper wire—Osborn & Alexander  Two spools copper wire—Osborn & Alexander  Two spools copper wire—Osborn & Alexander  Two pair Fram. points—Osborn & Alexander  Two pair Fram. points—Osborn & Alexander  One half dozen & flat mirrors—Electric Manufacturing Co.  Preight on one crate—Southern Pacific Co.  Shellacking and oiling seven tables; painting ceiling and partitions, etc.—S. Wakeham  Table, to order—A. J. Forbes & Son  Seven tables, to order—Niehaus Bros. & Co.  One bifilar suspension—James W. Queen & Co.	\$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80 25 60 50 40 2 05 4 50 6 00 14 3 93 18 00 35 00 5 50 40 00	\$248 63
One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  Freight on one box granite—Southern Pacific Co.  Expressage on one box granite—Patterson & Co.  Expressage on two boxes—Patterson & Co.  Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works.  Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co.  Two silver cups—Justinian Caire One pound shellac—Justinian Caire.  Two hundred assorted bung corks—Justinian Caire.  Plaster of Paris—Justinian Caire.  One pound steel wire—Justinian Caire.  Three spools al. wire—Osborn & Alexander.  Four spools soft brass wire—Osborn & Alexander.  Three spools soft brass wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Tho pair Fram. points—Osborn & Alexander.  Two pair Fram. points—Osborn & Alexander.  Two pair Fram. points—Osborn & Alexander.  Two pair four spools and wire—Osborn & Alexander.  Two pair fram. points—Osborn & Alexander.  Two pair fram. points—Osborn & Alexander.  Two pair four spools copper wire—Osborn & Alexander.  Two pair fram. points—Osborn & Alexander.  Tone half dozen & concave mirrors—Electric Manufacturing Co.  One half dozen & concave mirrors—Electric Manufacturing Co.  Freight on one crate—Southern Pacific Co.  Shellacking and oiling seven tables; painting ceiling and partitions, etc.—S. Wakeham.  Table, to order—A. J. Forbes & Son.  Seven tables, to order—Niehaus Bros. & Co.  One bifilar suspension—James W. Queen & Co.  One bifilar suspension—James W. Queen & Co.	\$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80 25 60 25 60 20 4 50 6 00 14 3 93 18 00 35 00 65 50 40 00 14 00	\$248 63
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One hundred cubic feet gas—Oakland Gas Co.  Two hundred cubic feet gas—Oakland Gas Co.  Freight on one box granite—Southern Pacific Co.  Expressage on one box granite—Patterson & Co.  Expressage on two boxes—Patterson & Co.  Expressage on two boxes—Patterson & Co.  To Department of Physics.  Four solenoids—California Electrical Works.  Five sixteenths of a pound silk-covered German silver wire— James W. Queen & Co.  Two silver cups—Justinian Caire One pound shellac—Justinian Caire.  Two hundred assorted bung corks—Justinian Caire.  Plaster of Paris—Justinian Caire.  One pound steel wire—Justinian Caire.  Three spools al. wire—Osborn & Alexander.  Four spools soft brass wire—Osborn & Alexander.  Three spools soft brass wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Three spools copper wire—Osborn & Alexander.  Tho pair Fram. points—Osborn & Alexander.  Two pair Fram. points—Osborn & Alexander.  Two pair Fram. points—Osborn & Alexander.  Two pair four spools and wire—Osborn & Alexander.  Two pair fram. points—Osborn & Alexander.  Two pair fram. points—Osborn & Alexander.  Two pair four spools copper wire—Osborn & Alexander.  Two pair fram. points—Osborn & Alexander.  Tone half dozen & concave mirrors—Electric Manufacturing Co.  One half dozen & concave mirrors—Electric Manufacturing Co.  Freight on one crate—Southern Pacific Co.  Shellacking and oiling seven tables; painting ceiling and partitions, etc.—S. Wakeham.  Table, to order—A. J. Forbes & Son.  Seven tables, to order—Niehaus Bros. & Co.  One bifilar suspension—James W. Queen & Co.  One bifilar suspension—James W. Queen & Co.	\$24 00 1 74 3 35 40 1 70 25 25 1 25 30 80 25 60 25 60 25 60 25 60 14 3 93 18 00 35 00 65 50 40 00 11 40 11 40	\$248 63

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One condenser—James W. Queen & Co	1 50	
Boxing—James W. Queen & Co. One large extension bit—Osborn & Alexander	2 00	
One small extension bit—Osborn & Alexander 150		
One brad handle—Osborn & Alexander		
One countersink—Osborn & Alexander 50		
One brad handle—Osborn & Alexander 60 One countersink—Osborn & Alexander 50 One prick punch—Osborn & Alexander 25	•	
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Expressage paid—F. Slate	1 50	
Expressage paid—F. Slate One dust brush—Buchanan Bros. One set steel numbers—Osborn & Alexander	75	
One set steel numbers—Osborn & Alexander	90	
Two alcohol lamps—Justinian Caire	50	
Expressage from Philadelphia—Wells, Fargo & Co	9 55 25	•
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Two alcohol lamps—Justinian Caire  Expressage from Philadelphia—Wells, Fargo & Co.  Five spools thread—F. Slate One balance—Justinian Caire  \$35 00 One set weights—Justinian Caire  12 00		
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One dozen Meyer vapor apparatus—James W. Queen & Co Three small boxes—James W. Queen & Co	17 40 75	
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To Fuel and Gas.		φ <del>1</del> 11 00
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To Stationery.		
Supplies for Secretary's office	\$185 40	
Supplies for Land office	64 23	
Supplies for Recorder's office	30 00	
Supplies for President's office	12 00	
To Official and Lecturing Expenses.	<del></del>	291 63
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Traveling expenses of Land Agent.  Fraveling expenses of Professor Jones Fraveling expenses of Professor Putzker  Fraveling expenses of Professor Clarke  Fraveling expenses of Professor Slate  Fraveling expenses of Professor Senger  Fraveling expenses of Frederick Iddins  Traveling expenses of Frederick Iddins  Traveling expenses of Frofessor Hesse  Carriage hire and lunch.  Extra clerical services  Traveling expenses of Professor Cook  To College Celebrations.	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 12 60 5 50 183 80 41 30	737 39
Traveling expenses of Land Agent.  Iraveling expenses of Professor Jones  Iraveling expenses of Professor Putzker  Iraveling expenses of Professor Clarke  Iraveling expenses of Professor Slate  Iraveling expenses of Professor Senger  Iraveling expenses of M. E. Letts  Iraveling expenses of Frederick Iddins  Iraveling expenses of E. A. Sawyer  Iraveling expenses of Professor Hesse  Carriage hire and lunch  Extra clerical services  Iraveling expenses of Professor Cook  To College Celebrations.	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 183 80 41 30	737 39
Traveling expenses of Land Agent.  Iraveling expenses of Professor Jones  Iraveling expenses of Professor Putzker  Iraveling expenses of Professor Clarke  Iraveling expenses of Professor Slate  Iraveling expenses of Professor Senger  Iraveling expenses of M. E. Letts.  Iraveling expenses of Frederick Iddins  Iraveling expenses of E. A. Sawyer.  Iraveling expenses of Professor Hesse  Carriage hire and lunch  Extra clerical services  Iraveling expenses of Professor Cook.  Italian Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Interview Int	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 183 80 41 30	· 737 39
Traveling expenses of Land Agent.  Traveling expenses of Professor Jones  Traveling expenses of Professor Putzker  Traveling expenses of Professor Clarke  Traveling expenses of Professor Slate  Traveling expenses of Professor Senger  Traveling expenses of M. E. Letts  Traveling expenses of Frederick Iddins  Traveling expenses of E. A. Sawyer  Traveling expenses of Professor Hesse  Carriage hire and lunch  Extra clerical services  Traveling expenses of Professor Cook  To College Celebrations.	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 12 60 5 50 18 80 41 30 \$30 00 18 50 150 00	737 39
Traveling expenses of Land Agent.  Fraveling expenses of Professor Jones Fraveling expenses of Professor Putzker Fraveling expenses of Professor Clarke Fraveling expenses of Professor Slate Fraveling expenses of Professor Senger Fraveling expenses of Frofessor Senger Fraveling expenses of Frederick Iddins Fraveling expenses of Frederick Iddins Fraveling expenses of Frofessor Hesse Carriage hire and lunch Extra clerical services Fraveling expenses of Professor Cook  To College Celebrations.  Symbols of President's office Filling out diplomas Diplomas Carriage hire Lunches  Lunches	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 183 80 41 30 \$30 00 18 50 150 00 28 80	, 737 39
Traveling expenses of Land Agent  Traveling expenses of Professor Jones  Traveling expenses of Professor Putzker  Traveling expenses of Professor Clarke  Traveling expenses of Professor Slate  Traveling expenses of Professor Senger  Traveling expenses of Frederick Iddins  Traveling expenses of Frederick Iddins  Traveling expenses of Frederick Iddins  Traveling expenses of Frederick Iddins  Traveling expenses of Frederick Iddins  Traveling expenses of Frederick Iddins  Traveling expenses of Professor Hesse  Carriage hire and lunch  Extra clerical services  Traveling expenses of Professor Cook  To College Celebrations.  Symbols of President's office  Filling out diplomas  Diplomas  Carriage hire  Lunches  Symplies for celebration	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 18 80 41 30 \$30 00 18 50 150 00 28 00 8 00 75	737 39
Iraveling expenses of Land Agent.  Iraveling expenses of Professor Jones Iraveling expenses of Professor Putzker  Iraveling expenses of Professor Clarke  Iraveling expenses of Professor Slate  Iraveling expenses of Professor Slate  Iraveling expenses of Frederick Iddins  Iraveling expenses of Frederick Iddins  Iraveling expenses of Frederick Iddins  Iraveling expenses of Frederick Iddins  Iraveling expenses of Frederick Iddins  Iraveling expenses of Frederick Iddins  Iraveling expenses of Professor Hesse  Carriage hire and lunch  Extra clerical services  Iraveling expenses of Professor Cook  Iraveling expenses of Professor Cook  Iraveling out diplomas  Diplomas  Carriage hire  Lunches  Symplies for celebration	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 183 80 41 30 \$30 00 18 50 150 00 8 00	
Traveling expenses of Land Agent.  Traveling expenses of Professor Jones  Traveling expenses of Professor Putzker  Traveling expenses of Professor Clarke  Traveling expenses of Professor Slate  Traveling expenses of Professor Senger.  Traveling expenses of M. E. Letts.  Traveling expenses of Frederick Iddins  Traveling expenses of E. A. Sawyer.  Traveling expenses of Professor Hesse  Carriage hire and lunch.  Extra clerical services.  Traveling expenses of Professor Cook.  To College Celebrations.  Symbols of President's office.  Filling out diplomas  Diplomas  Carriage hire  Lunches.  Supplies for celebration.  Music for commencement.	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 18 80 41 30 \$30 00 18 50 150 00 28 00 8 00 75	737 39
Traveling expenses of Land Agent.  Traveling expenses of Professor Jones Traveling expenses of Professor Putzker Traveling expenses of Professor Clarke Traveling expenses of Professor Slate Traveling expenses of Professor Slate Traveling expenses of Professor Senger Traveling expenses of Frederick Iddins Traveling expenses of E. A. Sawyer. Traveling expenses of Frofessor Hesse Carriage hire and lunch Extra clerical services Traveling expenses of Professor Cook  To College Celebrations.  Symbols of President's office.  Filling out diplomas Diplomas Carriage hire Lunches Supplies for celebration Music for commencement  To Postage.	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 183 80 41 30 \$30 00 18 50 150 00 28 00 8 00 8 50	
Traveling expenses of Land Agent.  Traveling expenses of Professor Jones  Traveling expenses of Professor Putzker  Traveling expenses of Professor Clarke  Traveling expenses of Professor Slate  Traveling expenses of Professor Slate  Traveling expenses of M. E. Letts.  Traveling expenses of Frederick Iddins  Traveling expenses of E. A. Sawyer.  Traveling expenses of Professor Hesse.  Carriage hire and lunch.  Extra clerical services.  Traveling expenses of Professor Cook.  To College Celebrations.  Symbols of President's office.  Filling out diplomas.  Diplomas  Carriage hire  Lunches.  Supplies for celebration.  Music for commencement.	12 00 198 65 79 10 49 80 16 00 8 10 56 04 2 45 75 12 60 5 50 18 80 41 30 \$30 00 18 50 150 00 28 00 8 00 75	

To Telegraphing and Expressage.		
Telegrams—Western Union Telegraph Co	\$3 72 2 00 4 10	
. To Insurance.		<b>\$</b> 9 8
On mortgages—J. C. Mitchell & Son	\$24 00 7,303 75	
To amount reserved for permanent improvements		7,327 7 15,000 0
	-	\$92,385 %

STATE APPROPRIATION (ONE-CENT FUND) FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

Statement of expenditures and receipts of the State University Fund, as directed in an Act of the Legislature of the State of California, entitled "An Act to provide for the permanent support and improvement of the University of California by the levy of a rate of taxation and the creation of a fund therefor," approved February 14, 1887.

RECEIPTS.	i	
October 31, 1899, by cash on Controller's warrant		\$9,353 04 91,852 85
Disbursements.	•	\$101,205 89
To Department of Lick Observatory.	=	
Rental of telephone for one year—Sunset Telephone Co	\$35 00	
Ten cases Starlight oil—Goldberg, Bowen & Co	60 00 26 00	
Ten cases Starlight oil—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co.	1 60	
One 7-foot saw—Farmers Union Thirteen-pound steel sledge—Farmers Union Eight pounds steel wedges—Farmers Union One sledge hammer—Farmers Union One hand saw. Farmers Union	7 00	
Thirteen-pound steel sledge—Farmers Union	1 30	
One sledge hammer—Farmers Union	96 25	
One rip saw—Farmers Union	2 00	
Two screwdrivers—Farmers Union	45	
Fitteen cans chloride of lime—Farmers Union	1 50	
One rip saw—Farmers Union Two screwdrivers—Farmers Union Fifteen cans chloride of lime—Farmers Union One half dozen brooms—Farmers Union One half dozen mops—Farmers Union Ten dozen castile soap—Farmers Union One half dozen lantern globes—Farmers Union One half dozen lamp shades—Farmers Union One tack hammer—Farmers Union One carpenter's hammer—Farmers Union	1 75	
Ten dozen castile soap—Farmers Union	2 13 1 20	
One half dozen lantern globes—Farmers Union	75	
One half dozen lamp shades—Farmers Union	2 40	
One tack hammer—Farmers Union	50	
One carpenter's hammer—Farmers Union Three Mann's copybooks—Payot, Upham & Co. One half dozen ink wells—Payot, Upham & Co.	65	
One half dozen int wells—Payot, Upham & Co.	4 05 45	
One third dozen quarts violet ink—Payot, Upham & Co.	1 67	
One third dozen quarts violet ink—Payot, Upham & Co. One sixth dozen quarts Arabian ink—Payot, Upham & Co. One and one half reams legal paper—Payot, Upham & Co. One and one half reams letter paper—Payot, Upham & Co. One and one half reams note paper—Payot, Upham & Co. Fifteen cases Starlight oil—Goldberg, Bowen & Co. Frieht on same—Goldberg, Bowen & Co.	1 67	
One and one half reams legal paper—Payot, Upham & Co	2 81	
One and one half reams letter paper—Payot, Upham & Co.	2 25	
Fifteen eages Starlight oil Goldborg Rowen & Co.	1 12 36 00	
Theight on same—Goldberg, Bowen & Co.  Thirty gallons machine oil—Whittier, Fuller & Co.  Ten gallons pure sperm oil—Whittier, Fuller & Co.  Cartage on same—Whittier, Fuller & Co.  Flax packing—Union Iron Works.  Westen reading—Union Linen Works.	2 40	
Thirty gallons machine oil—Whittier, Fuller & Co.	16 50	
Ten gallons pure sperm oil—Whittier, Fuller & Co	11 00	
Cartage on same—Whittier, Fuller & Co.	50	
Weste packing Union Iron Works	15 00	
	7 00 1 25	
One observing lantern—H. A. Mathews One half dozen bottles watch oil—H. A. Mathews	1 50	
I Initeen tons nav—I. D. D. Bernal	195 00	
Three thousand seven hundred and fifty pounds barley—Far. U'n Four hundred and eighty-five pounds bran—Farmers Union	30 00	
Four hundred and eighty-five pounds bran—Farmers Union	4 00	
Postage stamps—S. H. Wagener	50 00	
Ten coils barbed wire—H. A. Mathews Thirteen sheets galvanized iron—H. A. Mathews	10 00 15 00	
Twenty dozen 8x10 seed plates—H. A. Mathews One dozen 10x12 seed plates—H. A. Mathews One dozen 11x14 seed plates—H. A. Mathews Ten dozen 4x5 seed plates—H. A. Mathews	48 00	
One dozen 10x12 seed plates—H. A. Mathews	3 80	
One dozen 11x14 seed plates—H. A. Mathews	5 00	
Ten dozen 4x5 seed plates—H. A. Mathews Ten dozen 34x44 Eastman plates—H. A. Mathews One ounce mitric ammonia—H. A. Mathews		
One ounce pitric ammonia H A Mathews	6 50	
One ounce gum saudarac—H. A. Mathews	20 50	
Une pound chloroform—H. A. Mathews	65	
Une pound mittiate uranium—H. A. Mathews	85	
Five ounces oil of lavender—H. A. Mathews	1 25	•
Fire ounces oil of lavender—H. A. Mathews Nine bottles chloride gold—H. A. Mathews One quart alcohol—H. A. Mathews	5 00	
oue quart acconol—H. A. Mathews	75	

# One ounce chloride ammonia-H. A. Mathews-----\$0 20 One ounce sodium—H. A. Mathews. Gratings on silvered glass—E. S. Holden. One span sorrel mules—Ira Hageman. 15 00 One span sorrel mules—Ira Hageman. Twine and tacks—Farmers Union. One dozen papers tacks—H. A. Mathews. Five gallons alcohol—J. Archambeault One barrel lime—J. Archambeault Two pounds green paint—J. Archambeault Ten pounds chloride lime—J. Archambeault Fifty feet rain conductor—J. Archambeault Fifty feet rain conductor—J. Archambeault Eleven and one quarter feet belting—J. Archambeault Three hose couplings and nipples—J. Archambeault One and one half gross matches—J. Archambeault Twenty packages toilet paper—J. Archambeault Twenty packages toilet paper—J. Archambeault Sixty-six feet white cedar—Santa Clara Valley Mill and Lum. Co. One hundred and eighty paper boxes—A. Fleishhacker & Co. One hundred sheets blotting paper—B. Westermann & Co. Cutting and hauling wood—Hugh Kennedy Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—Hugh Kennedy Cutting thirteen and one half cords of wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown 300 00 14 25 2 00 60 1 00 5 00 2 30 4 20 2 50 5 28 11 25 8 00 63 00 24 00 63 00 24 00 27 00 58 50 29 7 00 30 00 Cutting and hauling wood—H. C. Brown-----Cutting and hauling wood—J. R. Kincaid Cutting and hauling wood—H. C. Brown Cutting and hauling wood—H. C. Brown Four bullseye lanterns—H. A. Mathews Labor setting up tanks—R. Fraser 45 00 4 75 10 00 Three hundred and thirty-three split pickets—Santa Clara Valley Lumber Co. Repairing eye end of 12-inch telescope; supplies and labor— Union Iron Works Ten cords of 4-foot wood—E. S. Holden Ruling blanks—Hicks-Judd Co. Lumber Co. 9 99 60 00 50 75 5 00 Ten cords of 4-foot wood—E. S. Holden Ruling blanks—Hicks-Judd Co. One electro blank—Bancroft Co. Five hundred postal cards—J. W. Flynn One signal service—Yale University One letter balance—Geo. W. Welch One half dozen chimneys—Richard Briggs Two retort stands—H. A. Mathews. One set cork borers—H. A. Mathews. Two pounds vulcanized rubber—H. A. Mathews. One printing frame—H. A. Mathews. One printing frame—H. A. Mathews. One newspaper file—H. A. Mathews. One newspaper file—H. A. Mathews. Sixty paper boxes—A. Fleishhacker & Co. Two Rochester founts—Thos. Day & Co. Bushing three gear wheels—Wight & Branham Mounting reversion prism—J. A. Brashear. Platinum wire—Justinian Caire Labor as machinist, etc.—A. J. Burnham Two pounds Canada balsam—Justinian Caire. Making valve stems—Wight & Branham Services as carpenter—R. P. Fraser Telegrams in May—Western Union Telegraph Co. Telegrams in June—Western Union Telegraph Co. Observatory announcement for 1888—Harvard College Freight on oil—J. Archambeault Hauling during May—I. R. Kingaid 3 50 2 00 1 50 2 00 2 75 3 50 8 00 2 50 60 3 80 4 25 8 40 12 00 1 00 9 30 1 30 2 70 77 00 1 07 5 59 4 28 13 43 50 20 91 Hauling during July—H. C. Brown Hauling during July—H. C. Brown Hauling during July—H. C. Brown 14 53 14 46 1 25 Freight charges—Charles B. Hill Hauling in August—H. C. Brown Express charges, April and May—Mount Hamilton Stage Co... Express charges, May and June—Mount Hamilton Stage Co... Express charges, June and July—Mount Hamilton Stage Co... Express charges, July and August—Mount Hamilton Stage Co. Express charges—Union Iron Works Placing iron posts at five corners of reservation—Hugh Kennedy Fixing place for tanks—Hugh Kennedy 4 70 9 15 11 16 10 45 25 9 00 11 00

Repairing water engine—Union Iron Works. Eight new shoes—T. A. Carroll Fixing place for tanks—Hugh Kennedy Services as laborer—Hugh Kennedy Postage stamps—S. H. Wagener Six dozen plates, 8x10—M. A. Seed Dry Plate Co. Twelve new shoes—T. A. Carroll. Nipples, fittings, and bibbs—Farmers Union Five 2-inch gate valves—Farmers Union One pair T. S. shears—Farmers Union One pair Boston collars—Fred. M. Stern One pair sweat pads—Fred. M. Stern Two pairs sweat pads—Fred. M. Stern Two pairs sweat pads—Fred. M. Stern One whip—Hartman & Normandin Two tin tubes—F. Klein One door—Santa Clara Valley Mill and Lumber Co. Single and doubletrees—J. Archambeault Freight advances—J. Archambeault Lathe work on cylinders—Wight & Branham Four and one sixth dozen blank books—H. A. Mathews \$12.50 One rubber stamp—H. A. Mathews	\$54 50 4 00 14 00 14 00 50 00 12 96 6 00 31 73 17 50 7 00 4 00 1 50 1 25 6 80 2 25 2 75 1 00
\$14 50 Less 10 per cent 1 45	
	13 05
Eighty-four and one half pounds flax packing—Union Iron Works Repairing micrometer—A. Lietz & Co.  Two dozen lamp chimneys and freight—C. W. J. Martens Expressage prepaid—B. Westermann & Co.  Expressage during August and September—Mount Hamilton Stage Co.	42 25 22 80
Two dozen lamp chimneys and freight—C. W. I. Martens	5 50
Expressage prepaid—B. Westermann & Co.	5 60
Expressage during August and September—Mount Hamilton	15 50
Freight on packing—Southern Pacific Co	15 70 25
Transporting eclipse reports—Wells. Fargo & Co.	24 20
Stage Co	20 60
Three relays N. P.—Paul Seilers Electrical Works	13 50 4 50
Ten pounds chromic acid—Paul Scilers Electrical Works	4 50 3 50
One dozen ferrotype plates—H. A. Mathews.  Three ounces hydroquinine—H. A. Mathews. One ounce hydrate sodium—H. A. Mathews. One dozen hooks and staples—H. A. Mathews. One thousand eight hundred McGill's fasteners—H. A. Mathews.	1 80
Three ounces hydroquinine—H. A. Mathews	$\overline{2}$ $\overline{55}$
One ounce hydrate sodium—H. A. Mathews	25
One thousand eight hundred McGill's fasteners. H. A. Mathaws	1 00 6 03
One railroad lantern—H. A. Mathews	6 03 1 75
Une thousand eight hundred McGill's fasteners—H. A. Mathews. One brace and saw—Farmers Union Twelve-foot stepladder—Farmers Union One gross screws—Farmers Union One pair butts—Farmers Union Lock and glue—Farmers Union One half dozen padlocks—Farmers Union One elony diamond—Farmers Union One elony diamond—Farmers Union	1 95
Twelve-foot stepladder—Farmers Union	4 80
One pair butts Formers Union	1 · 60 20
Lock and glue—Farmers Union	1 25
One half dozen padlocks—Farmers Union	1 75
One chory diamond—Farmers Union	7 25 50
Sandpaper and brush—Farmers Union	50 50
Five gallons shellac—Farmers Union	22 50
Special work on spectroscope—John A. Brashear	79 00
One long focus objective—John A. Brashear	$\begin{array}{c} 12 \ 00 \\ 12 \ 00 \end{array}$
One lens for photo work—John A. Brashear	7 00
One special eyepiece—John A. Brashear	20 00
Expressage—John A. Brashear	3 15 37 96
Drawing of bronze tablet—F. Seregni	15 00
Expressage—Patterson & Co.	65
Postage stamps—S. H. Wagener	10 00
One half dozen padlocks—Farmers Union One ebony diamond—Farmers Union One half bolt twine—Farmers Union Sandpaper and brush—Farmers Union Sandpaper and brush—Farmers Union Five gallons shellac—Farmers Union Special work on spectroscope—John A. Brashear One short focus objective—John A. Brashear One long focus objective—John A. Brashear One lens for photo work—John A. Brashear One special eyepiece—John A. Brashear Control for driving clock—Union Iron Works Drawing of bronze tablet—F. Seregni Expressage—Patterson & Co. Postage stamps—S. H. Wagener Postage stamps—S. H. Wagener Fostage stamps—S. H. Wagener Fifteen cases Starlight oil—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co. Freight on same—Goldberg, Bowen & Co. Refiguring surfaces of spectroscope—John A. Brashear Payment of all charges for expressage up to January 1, 1890—Mt. Hamilton Stage Co. One hundred and fifty porcelain insulators—Paul Sailers Elec-	10 00 15 00
Fifteen cases Starlight oil—Goldberg, Bowen & Co.	37 50
Freight on same—Goldberg, Bowen & Co.	2 40
Renguring surfaces of spectroscope—John A. Brashear	20 00
Hamilton Stage Co.	400 00
one number and intry porceiant insulators—I add penters inter-	
trical Works	2 65

One hundred and fifty 2-inch screws-Paul Seilers Electrical	
	<b>\$1</b> 50
Works Boxing same—Paul Seilers Electrical Works	10
Eight new shoes—T. A. Carroll One hundred and fifty insulators and screws—Paul Seilers Elec-	4 00
trical Works	4 25
trical Works  Refilling level and caps—A. Leitz & Co. One door—Santa Clara Valley Mill and Lumber Co.	3 50
One door—Santa Clara Valley Mill and Lumber Co.	5 00
One ream P. O. paper—H. A. Mathews.  Two and one half pounds cotton rope—H. A. Mathews.  One ream manilla paper—H. A. Mathews.	1 00
Two and one half pounds cotton rope—H. A. Mathews	1 25
One ream manilla paper—H. A. Mathews One box rubber bands—H. A. Mathews Five dozen 8x10 dry plates—E. & H. J. Anthony & Co.	3 50
Five dozen 8x10 dry plates—E & H I Anthony & Co	65
One H. W. G. lantern—E. & H. J. Anthony & Co.	15 66
Five boxes F. P. paper—E. & H. J. Anthony & Co	10 00
One folio diary—Payot, Upham & Co.	2 50
Five dozen 8x10 carbutt plates—Samuel C. Partridge	<b>15 15</b>
Twenty ounces pyrogallic acid—H. A. Mathews Two dozen nickel butts—H. A. Mathews	9 00
Two dozen nickel butts—H. A. Mathews	10 40
One Billings wrench—H. A. Mathews.	1 00
One thousand brass-head tacks—H. A. Mathews Half dozen balls hemp cord—H. A. Mathews	1 50
One dozen stove holts. H A Mathews	$egin{array}{c} 1 & 50 \ & 25 \end{array}$
One dozen stove bolts—H. A. Mathews Ten dozen Acme note—H. A. Mathews	10 50
Two dozen oil hoards—H. A. Mathews	1 50
Carpenter work—S. Howarth Expenses to Lick Observatory and return—J. C. Rowell	55 00
Expenses to Lick Observatory and return—J. C. Rowell	5 50
Eleven indexes—Payot, Upham & Co.	3 30
Eleven indexes—Payot, Upham & Co. One dozen transfer cases—Payot, Upham & Co.	4 20
One hank cord Harmons Union	1 25
Five yards curtaining—Rucker Bros. One hank cord—Farmers Union Three pounds twine—Farmers Union	1 00
Ten pounds putty—Farmers Union	90 40
Vaseline—Farmers Union	50
Vaseline—Farmers Union Two and one half pounds rope—Farmers Union	45
Tacks and matches—Farmers Union	1 25
Two check valves—Farmers Union	3 50
Tacks and matches—Farmers Union Two check valves—Farmers Union One strip leather—Farmers Union	30
Six poits twine rarmers Union	60
Two sacks charcoal—Farmers Union	1 20 1 00
Six spring hinges—Farmers Union Three pounds black paint—Farmers Union Twenty pounds nails—Farmers Union	75
Twenty pounds nails—Farmers Union	1 00
Fifty pounds buckwheat—Farmers Union One currycomb and brush—Farmers Union	1 38
One currycomb and brush—Farmers Union	
Neatsfoot oil—Farmers Union	<b>3</b> 5
One mill file—Farmers Union	20
Copper rivets—Farmers Union	75 95
Iron rivets—Farmers Union Three files—Farmers Union	$\begin{smallmatrix}25\\1&60\end{smallmatrix}$
Three files—Farmers Union Fifteen pounds 30d nails—Farmers Union	
Fifteen pounds 30d nails—Farmers Union Casting ring for cell of finder—Wight & Branham Twelve dozen 3½¼‡ plates—M. A. Seed Dry Plate Co. Repairing wagon—Hatman & Normandin Eight new shoes—T. A. Carroll Postage stamps—S. H. Wagener Hoop iron—Farmers Union	2 50
Twelve dozen 31x41 plates—M. A. Seed Dry Plate Co.	4 86
Repairing wagon—Hatman & Normandin	3 00
Eight new shoes—T. A. Carroll	4 00
Postage stamps—S. H. Wagener	25 00
Hoop iron—Farmers Union Six pounds ball twine—Farmers Union	. = ~
Four barrels lime—Farmers Union	1 50 8 00
Two barrels cement—Farmers Union	10 50
Parlor matches—Farmers Union	1 00
Hoop iron—Farmers Union	1 25
Two bolts twine—Farmers Union	40
Three files—Farmers Union	1 20
Strapping books—Farmers Union	1 75
Two barrels cement—Farmers Union	50 10 30
Five hundred feet lumber—Farmers Union	10 50
Hauling five thousand and fifty feet lumber—J. D. D. Bernal	20 60
Five hundred feet lumber—Farmers Union Hauling five thousand and fifty feet lumber—J. D. D. Bernal Hauling four thousand and ten pounds freight—J. D. D. Bernal	14 04
Board for man renairing telegraph line	5 50
Board of Joseph Roban—Repairing telegraph line  Board of Joseph Roban—Repairing telegraph line	1 00
board of Joseph Koban—Repairing telegraph line	3 00

Board of W. W. Bent—Repairing telegraph line Three cells Dr. Gassner battery—Paul Seilers Electrical Works	<b>\$</b> 5 <b>5</b> 0
Three cells Dr. Gassner battery—Paul Seilers Electrical Works	4 60
Hanling one thousand six hundred and sixty nounds Eclipse	
Report—I. R. Kincaid	5 81
Typressage during October Mount Hamilton Stage Co	10 60
Twight on reports to Washington Formany Unit	17 64
Housing five bundred feet lamber II C. D.	
Three cells Dr. Gassner battery—Paul Seilers Electrical Works Hauling one thousand six hundred and sixty pounds Eclipse Report—J. R. Kincaid  Expressage during October—Mount Hamilton Stage Co. Freight on reports to Washington—Farmers Union Hauling five hundred feet lumber—H. C. Brown Hauling one hundred pounds barbed wire—H. C. Brown Hauling two barrels cement—H. C. Brown	10 00
Harling the hundred pounds barbed wire—H. C. Brown	40
Hauling two parrels cement—H. C. Brown	80
Hauling two barrels cement—H. C. Brown Hauling three thousand five hundred pounds freight—H. C. Brown	
Brown	14 00
Brown  Hauling one thousand two hundred and fifty pounds freight— H. C. Brown Repairing telephone line—H. C. Brown Freight on seeds and paper—Farmers Union Freight on goods to East—Farmers Union Freight drive Newspaper	
H. C. Brown	5 00
Repairing telephone line—H. C. Brown	4 75
Freight on seeds and paper—Farmers Union	50
Freight on goods to East—Farmers Union	• 3 70
Freight during November—Farmers Union	8 95
One hundred feet upholstery cord—H. A. Mathews	<b>7</b> 5
One developing pan—H. A. Mathews	16 00
Fifty pounds wire staples—H. A. Mathews	9 50
One 8x10 plate mirror—H. A. Mathews	75 ·
One calendar memoranda—H. A. Mathews	50
One calendar memoranda—H. A. Mathews	50
Half dozen screw nulleys—H. A. Mathews	60
Hauling one thousand brick—I R Kingaid	2.50
Finding specian corners—I R Kinegid	2 50
Paneling wagen I M Hetch	2 00
Swivel for windmill H F R now	2 50 3 25 2 50
Ownth for windmill II II Vnor	10.00
Towned of Mathematica D Westermann & Co	10 00
Actronomical Tayrnal D Westermann & Co.	10 00 7 00 8 00
Astronomical Pulletin D. Westermann & Co.	4 75
Observatory P Westernam & Co.	4 75 3 50
Voservatory—D. Westermann & Co.	5 90 6 00
Astronomical Journal D. Westermann & Co.	
Astronomical Journal—B. Westermann & Co.	5 50
Sideral Magaziner B. Westermann & Co.	2 00
Dinding two handred and Con-	3 00
Sinding two numbered and nity-six volumes—Hicks-Juda Co	197 00
Seed Darley—Farmers Union	4 40
Seed Oats—Farmers Union	3 00
Seed rye—rarmers Union	2 90
Une narrow—rarmers Union	12 00
Fire deep 0-10 state Mayer & Muller	3 88
Five dozen 8x10 plates—M. A. Seed Dry Plate Co	
Two dozen 5x7 plates—M. A. Seed Dry Plate Co	
B 3 4 m 1 1 2 m 4 0 1 D 1 D 1 C 0 0 0 1	
Four dozen 4x5 plates—M. A. Seed Dry Plate Co	
Four dozen 4x5 plates—M. A. Seed Dry Plate Co. 2 60	
Freight on seeds and paper—Farmers Union Freight on goods to East—Farmers Union Freight during November—Farmers Union One hundred feet upholstery cord—H. A. Mathews One developing pan—H. A. Mathews Fifty pounds wire slaples—H. A. Mathews One sx10 plate mirror—H. A. Mathews One calendar memoranda—H. A. Mathews One calendar memoranda—H. A. Mathews One calendar memoranda—H. A. Mathews Half dozen screw pulleys—H. A. Mathews Half dozen screw pulleys—H. A. Mathews Halling one thousand brick—J. R. Kincaid Finding section corners—J. R. Kincaid Repairing wagon—J. M. Hatch Swivel for windmill—H. E. Knox Crank for windmill—H. E. Knox Journal of Mathematics—B. Westermann & Co. Astronomical Journal—B. Westermann & Co. Sidereal Messenger—B. Westermann & Co.	
Less 10 per cent 1 68	15 12
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Less 10 per cent	1 00 2 50 2 50 2 50 1 00 3 90 208 75 2 50 2 00 6 50 7 05 50 2 90 1 40 1 60
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Cone typewriter ribbon—Scott & Lee  One dozen carbon paper—Scott & Lee  Nails—Farmers Union  Screws and bolts—Farmers Union  Five gallons oil—Farmers Union  Five gallons oil—Farmers Union  Binding two hundred and nineteen volumes—Hicks-Judd Co  One gallon alcohol—Farmers Union  Matches—Farmers Union  One hundred pounds white lead—Farmers Union  Three cases Starlight oil—Goldberg, Bowen & Co  Ink for instruments—Draper Manufacturiug Co  Two dozen Abies mertensiana—Trumbull & Beebe  Four dozen Libocedrus decurrens—Trumbull & Beebe  Six dozen Pinus Coulteri—Trumbull & Beebe  Thirty-two ounces seeds—Thomas A. Cox & Co  One safety valve—Farmers Union  Ten gallons raw oil—Farmers Union  Two bundred rounds P. metallio—Farmers Union  Two bundred rounds P. metallio—Farmers Union	1 00 2 50 2 50 2 50 1 00 3 90 208 75 2 20 6 50 7 05 2 90 1 40 1 60 1 80 16 20 7 50 6 50 7 50 6 6 00 7 50 6 6 00 6 7 50 6 8 00 6 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00 8 00
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Two hanks upholstery cord—H. A. Mathews  Expressage on goods from New York—Wells, Fargo & Co		
	<b>\$</b> 0 75	
Expressage on goods from New York—Wells, Fargo & Co	14 40	
	<b>26 46</b>	
New crank for windmill—H. E. Knox Binding fifteen volumes—Hicks-Judd Co. Five pounds sulph. soda—Sam. C. Partridge Five pounds carb. soda—Sam. C. Partridge Two 6-ounce graduates—Sam. C. Partridge Two 2-ounce graduates—Sam. C. Partridge Two 1-ounce graduates—Sam. C. Partridge Eight ounces pyro—Sam. C. Partridge Eight ounces pyro—Sam. C. Partridge Three dozen Eastman plates—Sam. C. Partridge Seven dozen carbutt plates—Sam. C. Partridge Six bottles red ink—Farmers Union One hundred 5-cent stamps—S. H. Wagener Five hundred 2-cent stamps—S. H. Wagener Five hundred 1-cent stamps—S. H. Wagener Five hundred 1-cent stamps—S. H. Wagener Six mops—Farmers Union Six mops—Farmers Union Six mops—Farmers Union Six sorted files—Farmers Union	10 00	
Binding fifteen volumes—Hicks-Judd Co.	14 05	
Five pounds sulph, soda—Sam, C. Partridge	3 00	
Five pounds carb. soda—Sam. C. Partridge	2 75	
Two 6-ounce graduates—Sam C Partridge	1 30	
Two 2-ounce graduates—Sam C. Partridge	70	
Two 1-ounce graduates Sam C. Portridge	60 <sup>,</sup>	
Fight corneg name. Som C. Doutsides	3 00	
There done Fortune plant C. Partinge		
Three dozen Eastman plates—Sam. C. Partridge	2 10	
Seven dozen carbutt plates—Sam. C. Partridge	4 65	
Six bottles red ink—Farmers Union	1 10	
One hundred 5-cent stamps—S. H. Wagener	5 00	
Five hundred 2-cent stamps—S. H. Wagener	10 00	
Five hundred 1-cent stamps—S. H. Wagener	5 00	
One 10-inch file—Farmers Union	20	
Six mops—Farmers Union	1 20	
Assorted files—Farmers Union	1 75	
Putty—Farmers Union	1 00	
Sandpaper—Farmers Union	1 00	•
Glue—Farmers Union	1 50	
Assorted nins—H A Mathews	1 00	
Assorted rubbar hands—H A Mathawa		-
Five twelfth dozen neste. H A Mathewa	4 00 1 25	•
Straightening three valve stone. Wight & Dranham	80	
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Staples—Farmers Union	50	
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Twenty hours' clerical services—William Fairbanks	1 00 100 00 2 00 \$6 00 51 45	\$4,580 <sub>,</sub>
Twenty hours' clerical services—William Fairbanks	\$6 00 51 45 50	\$4,580 <sub>,</sub>
Twenty hours' clerical services—William Fairbanks	\$6 00 51 45 50 50	\$4,580 <sub>,</sub>
Twenty hours' clerical services—William Fairbanks	\$6 00 51 45 50	\$4,580 <sub>0</sub>
Twenty hours' clerical services—William Fairbanks	\$6 00 51 45 50 75	\$4,580 <sub>,</sub>
Twenty hours' clerical services—William Fairbanks	\$6 00 51 45 50 75 41 93	\$4,580 <sub>0</sub>
Twenty hours' clerical services—William Fairbanks Freight on seven packages gymnasium apparatus—Southern Pacific Co.  Expressage on rope and rings—Patterson & Co.  Expressage on rope and rings—Patterson & Co.  Expressage on one machine—Patterson & Co.  Expressage on one machine—Patterson & Co.  Expressage on one machine—Patterson & Co.  Other in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	\$6 00 51 45 50 75 41 93 70 00	\$4,580 <sub>,</sub>
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Twenty hours' clerical services—William Fairbanks Freight on seven packages gymnasium apparatus—Southern Pacific Co.  Expressage on rope and rings—Patterson & Co.  Expressage on rope and rings—Patterson & Co.  Expressage on one machine—Patterson & Co.  Expressage on one machine—Patterson & Co.  Expressage on one machine—Patterson & Co.  Other in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	\$6 00 51 45 50 75 41 93 70 00	\$4,580 <sub>,</sub>
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the copy press—Payot, Upham & Co.	<b>\$9 3</b> 8
One copybook—Payot, Upham & Co.	1 50
One quart comb. ink—Payot, Upham & Co.	75
One abdominal machineD. A. Sargent	144 00
One lunger plain heltD. A. Sargent	ช 50 5 00
One giant pulley—D. A. Sargent	10 00
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One length measure—D. A. Sargent	4 00
Chart for all harring W. P. MaDanial	75
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Expressage on four mattresses and horse—Patterson & Co.	5 00 2 50
Expressage on four mattresses and horse—Patterson & Co. One case oil—Joseph McClain One case oil—Joseph McClain One oil heating stove—Weister & Co. One yellow glass light—Whittier, Fuller & Co. Furnishing and placing one rolled steel bar—Crisman, Brown & Co. One smooth plane—Dunham, Carrigan & Hayden Co. One wrench—Dunham, Carrigan & Hayden Co. One auger bit—Dunham, Carrigan & Hayden Co. One hand vise—Dunham, Carrigan & Hayden Co. One glue pot—Dunham, Carrigan & Hayden Co. Five pounds glue—Dunham, Carrigan & Hayden Co. Five pounds rotten stone—Dunham, Carrigan & Hayden Co. Choride of lime—Dunham, Carrigan & Hayden Co. Chloride of lime—Dunham, Carrigan & Hayden Co.	2 50
One case oil—Joseph McClain	2 50
One oil heating stove—Weister & Co.	12 00
One yellow glass light—Whittier, Fuller & Co.	90
Furnishing and placing one rolled steel bar—Urisman, Brown & Co.	220 00 2 00
One wrench—Dunham, Carrigan & Hayden Co.	1 25
One snoer hit—Dunham, Carrigan & Hayden Co.	50
One hand vise—Dunham, Carrigan & Hayden Co.	1 00
One glue pot-Dunham, Carrigan & Hayden Co	1 50
Five pounds glue—Dunham, Carrigan & Hayden Co.	1 00
Five pounds powdered emery—Dunham, Carrigan & Hayden Co.	2 00
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Expressage on one box—Patterson & Co.	50
Expressage on three cases weights—Patterson & Co.	75
Expressage on one letter press—Patterson & Co.	50
One case astral oil—Joseph McClain	2 50
"Physical Education"—Narragansett Machine Co \$1 80	
"How to get Strong"—Narragansett Machine Co 1 00	
"Code Book"—Narragansett Machine Co	
"Flat and Round Pyramids"—Narragansett Machine Co. 80	
"Pyramid for Gymnasium"—Narragansett Machine Co. 45	
\$5 15	
Less 80	4 95
One 12-inch medium ball—Narragansett Machine Co \$9 50	4 35
One 16-pound shot bag—Narragansett Machine Co 8 00	
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One surgeon's bag—A. B. Merrill	10 00
Expressage on two boxes—Patterson & Co.	50 3 00
One spirometer—D. A. Sargent	10 00
Expressage on poles and bundles—Patterson & Co.	1 00
Freight on three packages apparatus—Southern Pacific Co.	5 04
One case astral oil—Joseph McClain	2 50 3 50
Two steel tapes—Justinian Caire	3 50
One neir striking gloves. H. N. Cook	15 00 2 00
Expressage on nunch hags—Patterson & Co	2 00 25
"Anatomical Auxiliary"—Narragansett Machine Co.	2 00
"Flat and Round Pyramids"—Narragansett Machine Co.	~80
One hatter's measure—David Wilcox & Co.	75 00
Hot water heating apparatus—Harvey Heating Co.	995 00
Book on the human anatomy—Samuel Carson & Co.	36 00
mxpressage — Wells, Fargo & Co.	6 50

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One trapeze and rope—Narragansett Machine Co.  Books—D. Appleton & Co.  Two 12-inch flat files—J. W. Savage	<b>\$6 00</b>	
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Two brass rods—I C Aitken	80	
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Cierical Services—L. M. Hall	$\begin{array}{c} 4 & 20 \\ 2,499 & 96 \end{array}$	ŧ
Salaries for the year ending Julie 30, 1680	2,400 00	\$4,653 9
To Library.		<b>42,000 0</b>
Expressage on twelve boxes books—Patterson & Co	\$2 00	
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W. C. C. C. C. C. C. C. C. C. C. C. C. C.		11,836 88

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Two dozen chilled iron saws—Justinian Caire.  One large knife for extension bit—Justinian Caire.  One small knife for extension bit—Justinian Caire.  One screw wrench, 8-inch, black—Justinian Caire.			80 40
One screw wrench, 8-inch, black—Justinian Caire One screw wrench, 10-inch, black—Justinian Caire One screw wrench, 12-inch, black—Justinian Caire			55 65 75
One screw wrench, 10-inch, black—Justinian Caire. One screw wrench, 12-inch, black—Justinian Caire. One machinist's hammer—Justinian Caire. One riveting hammer, 44—Justinian Caire. One riveting hammer, 43—Justinian Caire.	· • • • • • • • • • • • • • • • • • • •	•	75 35 40
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One hundred 1-cent wrappers—N. B. Byrne One hundred 2-cent envelopes—N. B. Byrne Three thousand seven hundred cubic feet gas—Oakland G Six thousand four hundred cubic feet gas—Oakland Gas C	as Co.	2 9 12	10 20 25 75
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& Hayden Co.  Half dozen Stubb's 6-inch files—Dunham, Carrigan & Hayden Co.  Half dozen Stubb's flat files—Dunham, Carrigan & Hayden Co.	\$0 49 1 87		
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Expressage on two cases of oil—Patterson & Co. Expressage on two bars steel—Patterson & Co. Expressage on one sack castings—Patterson & Co. Expressage on three sacks castings—Patterson & Co. Seven thousand four hundred cubic feet gas—Oakland Gas		-	75 35 50 50
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Five thousand two hundred cubic feet gas—Oakland Gas Co	\$13 00 12,787 31	
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Expressage on one box of glass—Patterson & Co	<b>\$</b> 0 25	
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Freight on one case of machinery—Atlantic & Pacific R. R.	12 09	
me thousand one hundred cubic feet gas—Oakland Gas Co	3 05	
Rubber tubing—Justinian Caire	4 50	
iders—Justinian Caire	1 00	
ne pulley—Clot & Meese	4 50	
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one thousand three hundred cubic feet gas—Oakland Gas Co	3 60	
Three thousand one hundred cubic feet gas—Oakland Gas Co Four thousand four hundred cubic feet gas—Oakland Gas Co	7 <b>7</b> 5	
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# Thirteen copies "Demosthenes' Orationes"-J. R. Mc-Donald & Co. Twelve copies "Demosthenes" Orationes"—J. R. Mc-M.15.00 Twelve copies "Demosthenes' Orationes"—J. R. McDonald & Co. Twenty copies "Æschylus"—J. R. McDonald & Co. Thirteen copies "Euripides"—J. R. McDonald & Co. Twelve copies "Euripides"—J. R. McDonald & Co. Twenty copies "Sophocles"—J. R. McDonald & Co. Twenty copies "Lysias"—J. R. McDonald & Co. Ten copies "Æschines"—J. R. McDonald & Co. Frive copies "Aristophanes"—J. R. McDonald & Co. Freight to Hamburg—J. R. McDonald & Co. Receiving, cartage, shipping—J. R. McDonald & Co. Consul's certificate—J. R. McDonald & Co. Commission—J. R. McDonald & Co. 24.00 30.00 24.00 19.20 12.00 3.50 10.70Twelve pounds sash cord—Dunham, Carrigan & Hayden Co... One half dozen knob locks—Dunham, Carrigan & Hayden Co... 4 20 8 03 2 25 One half dozen L. P. butts-Dunham, Carrigan & Hayden Co... One dozen transome catches—Dunham, Carrigan & Hayden Co. Ten lbs. wire brads 1x17—Dunham, Carrigan & Hayden Co. Twenty lbs. wire brads 2x12—Dunham, Carrigan & Hayden Co. Twenty lbs. wire brads 2½x10—Dunham, Carrigan & Hayden Co. Five gross screws ½x4—Dunham, Carrigan & Hayden Co. Two gross screws ½x4—Dunham, Carrigan & Hayden Co. Two gross screws ½x9—Dunham, Carrigan & Hayden Co. Five hundred feet 1x12x16 surfaced redwood—Henry W. Taylor. One thousand and five feet 1½x4x12 T. and G. redwood—Henry W. Taylor. W. Taylor Five hundred and thirteen feet 4x4x20 redwood—Henry W. Taylor. One dozen transome catches-Dunham, Carrigan & Hayden Co. 83 3 56 3 33 16 50 32 00 35 17 9 23 16 50 32 00 18 00 Five hundred and thirteen feet 4x4x20 redwood—Henry W. Taylor Five hundred feet 4x12 surfaced redwood—Henry W. Taylor One thousand feet 1x4x16 T. and G. redwood-Henry W. Taylor. One thousand feet 1x6 rough redwood—Henry W. Taylor One thousand and three feet 2x4x16 selected pine—Henry W. One thousand and three feet 2x4x16 selected pine—Henry W. Taylor. One thousand feet 1x4x16 T. and G. pine—Henry W. Taylor. One hundred feet 1x4 rough pine—Henry W. Taylor. Mill work on redwood—Henry W. Taylor. Cartage to mill—Henry W. Taylor. Five sets door jambs—two feet—Niehaus Bros. & Co. Three sets door jambs—two feet fx12 base—Niehaus Bros. & Co. Two hundred and sixty-five feet fx12 base—Niehaus Bros. & Co. Eight transom bars—Niehaus Bros. & Co. Two hundred and fifty-six feet round casing—Niehaus Bros. & Co. Five hundred and fifty-six feet round band—Niehaus Bros. & Co. Two hundred and fifty-six feet bead—Niehaus Bros. & Co. Two hundred and six feet band—Niehaus Bros. & Co. Five hundred and six feet band—Niehaus Bros. & Co. Two hundred and fifty feet casing—Niehaus Bros. & Co. Two hundred and fifty feet casing—Niehaus Bros. & Co. 23 07 34 00 1 80 2 50 111 25 Two hundred and fifty feet casing—Niehaus Bros. & Co. Two hundred and fifty-six feet band back—Niehaus Bros. & Co. Two hundred and htty-six feet band back—Niehaus Bros. & Co. Two hundred and fifty feet grounds—Niehaus Bros. & Co. Sixteen feet astragol—Niehaus Bros. & Co. Twenty-four feet threshold—Niehaus Bros. & Co. Twenty-five feet beaded molding—Niehaus Bros. & Co. Three Tr. 2x3, 21-oz.—Niehaus Bros. & Co. One thousand feet spruce—Niehaus Bros. & Co. Four hundred feet sugar pine—Niehaus & Co. 38 00 Labor, as per July payroll. Five gallons carriage varnish—Heuter Bros. & Co. 32 00 17 50 2 75 35 50 1 75 1 00 75 75 1 35 5 25 Five gallons carriage varnish—Heuter Bros. & Co. Five gallon gasoline—Heuter Bros. & Co. Five pounds lump pumice—Heuter Bros. & Co. Five pounds beeswax—Heuter Bros. & Co. Six sash tools—Heuter Bros. & Co. Six fitches—Heuter Bros. & Co. One duster, flat—Heuter Bros. & Co. Three scraping tools—Heuter Bros. & Co. One point burner—Heuter Bros. & Co. One paint burner—Heuter Bros. & Co.

#### DISBURSEMENTS-Continued.

	I
Five hundred pounds Pioneer lead—Whittier, Fuller & Co.	\$30 00
Five hundred pounds Pioneer lead—Whittier, Fuller & Co One hundred pounds Golden ocher—Whittier, Fuller & Co	8 00
Fifty gallons boiled oil-Whittier, Fuller & Co.	36 25
Five gallons turpentine—Whittier, Fuller & Co.	2 60
Fifty pounds venetian red—Whittier, Fuller & Co.	2 25
Fifty gallons boiled oil—Whittier, Fuller & Co. Five gallons turpentine—Whittier, Fuller & Co. Fifty pounds venetian red—Whittier, Fuller & Co. One hundred pounds Prince's metallic—Whittier, Fuller & Co. Five pounds pure raw sienna—Whittier, Fuller & Co. Two and one half dozen pair butts—Dunham, Carrigan & Hayder Co.	2 25
Five pounds pure raw sienna—Whittier, Fuller & Co.	65
Two and one nam dozen pair butts—Dunnam, Carrigan & Hay-	. ===
den Co. Two and one half dozen cupboard locks—Dunham, Carrigan &	75
l Havden Co.	12 50
One gross hat books—Dunham Carrigan & Hayden Co.	1 91
One half dozen knob locks—Dunham, Carrigan & Hayden Co One half dozen L. P. butts—Dunham, Carrigan & Hayden Co.	6 90
One half dozen L. P. butts—Dunham, Carrigan & Hayden Co	2 48
One twelfth dozen dead locks—Dunham, Carrigan & Hayden Co. Two dozen key blanks—Dunham, Carrigan & Hayden Co. Case—Dunham, Carrigan & Hayden Co.	1 75
Two dozen key blanks—Dunham, Carrigan & Hayden Co.	2 00
Pointing James Andrew	$\begin{array}{c} 25 \\ 108 50 \end{array}$
Painting—James Andrew Carpenter work—William Hodgson	98 00
Labor, per month of August	54 80
Labor, per month of August Covering North Hall steps with zinc, as per contract—J. M. Mc-	02.00
Namara	99 35
Plastering in North Hall, per contract—H. L. Whitney	115 00
Plumbing in North Hall, per contract—J. M. McNamara	18 00
Namara Plastering in North Hall, per contract—H. L. Whitney Plumbing in North Hall, per contract—J. M. McNamara Ten gallons wax—F. M. Farwell One tack hammer—Justinian Caire	20 00
One tack nammer—Justinian Caire	25
Soron tripode. Thomas Day & Co	1 50 70
One dozen hurners—Thomas Day & Co.	50
Labor and expenses—Thomas Day & Co.	6 75
Five sockets—J. M. McNamara	60
Services of painter—John Andrew	24 50
Services of carpenter—William Hodgson	24 50
Services of carpenter—William Hodgson	94 50
Services of painter—John Andrew	91 00
Labor, for month of September	49 00
Fight outsmotic mater closets, Senitery Dhumbing Co. \$940.00	
Eight automatic water-closets—Sanitary Plumbing Co. \$240 00   Connections—Sanitary Plumbing Co. \$35 00	
Eight automatic water-closets—Sanitary Plumbing Co. \$240 00 Connections—Sanitary Plumbing Co. 35 00 Repairs and new basin—Sanitary Plumbing Co. 7 00	;
One tack hammer—Justinian Caire Assorted files—Justinian Caire Seven tripods—Thomas Day & Co. One dozen burners—Thomas Day & Co. Labor and expenses—Thomas Day & Co. Five sockets—J. M. McNamara Services of painter—John Andrew Services of carpenter—William Hodgson Services of carpenter—William Hodgson Services of painter—John Andrew Labor, for month of September Eight automatic water-closets—Sanitary Plumbing Co. Services—Sanitary Plumbing Co. September September Eight automatic water-closets—Sanitary Plumbing Co. September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September September Septembe	:
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# One and one third dozen dust brushes—G. W. Armes ... \$9 33 One and two thirds dozen floor brushes—G. W. Armes ... 25 00 One half dozen chamois skins—G. W. Armes ... 275 \$31 53 Two dozen brooms—G. W. Armes \$7 00 One dozen dust pans—G. W. Armes 1 50 Two dozen car dusters—G. W. Armes 18 00 21 20 One dozen coal hods—G. W. Armes \$7 50 One dozen fire shovels—G. W. Armes 1 85 5 61 One dozen base knobs—Pierce & Co. Ten yards muslin—Raphael, Weill & Co. Nine pounds detail paper—Edward Denny & Co. 1 10 Six hundred cubic feet gas—Oakland Gas Co. One hundred and seventy feet redwood—Niehaus Bros. & Co. 1 65 6 80 7 00 3 00 4 40 12 50 16 00 20 00 3 25 6 00 1 02 60 50 39 21 50 16 00 84 00 One dozen pair iron butts—Dunham, Carrigan & Hayden Co. One gross brass screws—Dunham, Carrigan & Hayden Co. One Cairo rug—C. M. Plum & Co. Upholstery Co. One Damascus rug—C. M. Plum & Co. Upholstery Co. Service of painter—James Andrew One Bradford stove—M. De La Montanya. Twenty joints stove-pipe—M. De La Montanya One corrugated elbow—M. De La Montanya 16 00 7 00 75 75 1 00 One corrugated elbow—M. De La Montanya One bevel—M. De La Montanya One ventilating tube—M. De La Montanya Sheet zinc—M. De La Montanya Iron fenders—M. De La Montanya Damper and collar—M. De La Montanya Labor putting up—M. De La Montanya Service of carpenter—A. H. Broad Labor as per October pervel 1 50 3 00 35 3 00 7 00 54 00 22 50 Labor, as per October payroll Three 4-foot tables—Geo. H. Fuller Three oak chairs—Geo. H. Fuller Four library chairs—Geo. H. Fuller 18 00 15 00 30 00 36 00 18 00 Four bookcases—Geo. H. Fuller Two flat top desks—Geo. H. Fuller One bookcase—Geo. H. Fuller One Cairo rug—C. M. Plum & Co. Upholstery Co. One Bradford stove—M. De La Montanya 21 50 16 00 One Bradford stove—M. De La Montanya Sheet zinc—M. De La Montanya Labor and cartage—M. De La Montanya One thumble—J. W. Savage Six key blanks—D. Siesbuttel Service of painter—James Andrew Eighteen feet ash lumber—White Brothers One door bell—Huntington-Hopkins Co. Three fourths barrel lime—J. W. Savage Eight hundred cubic feet gas—Oakland Gas Co. One thousand one hundred cubic feet gas—Oakland Gas Co. Services of painter—James Andrew 1 50 2 50 40 1 50 5 00 2 00 2 00 1 50 2 20 3 05 Services of painter—James Andrew Labor for month of November Services of painter—James Andrew 42 00 52 00

One hundred and fifty chairs long rod—Cal Furniture Mfg Co.	\$250 00
One hundred and fifty chairs, long rod—Cal. Furniture Mfg. Co. Tables on arms of same—California Furniture Manufacturing Co.	112 50
Three thousand seven hundred cubic feet gas—Oakland Gas Co.	9 25
Five thousand cubic feet gas—Oakland Gas Co.	10 00
Labor for month of December	51 50
One top desk—Geo. H. Fuller	18 00
One bookcase—Geo. H. Fuller	18 00
One 4-foot table—Geo. H. Fuller	7 50
Tables on arms of same—California Furniture Manufacturing Co. Three thousand seven hundred cubic feet gas—Oakland Gas Co. Five thousand cubic feet gas—Oakland Gas Co. Labor for month of December— One top desk—Geo. H. Fuller One bookcase—Geo. H. Fuller One chair—Geo. H. Fuller One chair—Geo. H. Fuller Twenty sacks sawdust—Berkeley Planing Mill Twelve pounds lead waste—Berkeley Lumber Yard Two pounds fittings—Dalziel & Moller One 1½-inch globe valve—Dalziel & Moller One 1inch globe valve—Dalziel & Moller One union valve—Dalziel & Moller One plug—Dalziel & Moller	9 00
Twenty sacks sawdust—Berkeley Planing Mill	3 00
Twelve pounds lead waste—Berkeley Lumber Yard	1 20
Two pounds fittings—Dalziel & Moller	30 '
One 1½-inch globe valve—Dalziel & Moller	1 95
One 1-inch globe valve—Dalziel & Moller	- 90
One union valve—Dalziel & Moller	40
One plug—Dalziel & Moller	10
Length stove-pipe—S. D. Thurston	30
Twenty-two feet S. G. nickory—waternouse & Lester	3 52
One description of the lines of Trustinian China	2 50
Leber for month of Langery	8 50 52 00
One hundred fact shell gutter Nichaus Prog & Co	3 95
Three sets costers—Pierce & Co	2 95
Stove-nine and alhow—leffress Mitchell & Co	2 25
One mimeograph—Samuel Hill Co	20 00
One union valve—Dalziel & Moller One plug—Dalziel & Moller Length stove-pipe—S. D. Thurston Twenty-two feet S. G. hickory—Waterhouse & Lester Repairing basin—J. M. McNamara One dozen cast-steel calipers—Justinian Caire Labor for month of January One hundred feet chalk gutter—Niehaus Bros. & Co. Three sets casters—Pierce & Co. Stove-pipe and elbow—Jeffress, Mitchell & Co. One mimeograph—Samuel Hill Co. Eight and one third yards Brussels carpet—Schlueter & Volberg. Six and two thirds yards napier matting—Schlueter & Volberg. Two thousand nine hundred cubic feet gas—Oakland Gas Co. Iabor for month of February Four bookcases, per agreement—Niehaus Bros. & Co. One plain bookcase, per agreement—Niehaus Bros. & Co.	12 50
Six and two thirds yards napier matting—Schlueter & Volberg	5 00
Two thousand nine hundred cubic feet gas—Oakland Gas Co.	7 25
Four thousand cubic feet gas—Oakland Gas Co.	10 00
Labor for month of February	48 00
Four bookcases, per agreement—Niehaus Bros. & Co.	280 00
One plain bookcase, per agreement—Niehaus Bros. & Co.	60 00
Thirty-six feet pine and cedar—Niehaus Bros. & Co.	6 40
Twenty-one feet hand rail—Niehaus Bros. & Co	
Two hundred feet cove—Niehaus Bros. & Co	3 50
One Garland trap—J. M. McNamara	2 50
Solder and coal—J. M. McNamara	50
Help-J. M. McNamara	2 00
Two gate hooks and eyes—J. W. Savage	05
Two thumb latches—J. W. Savage	50
Two draw pulls—J. w. Savage	10
woving and replacing stove, per contract—J. M. McNamara	8 25
Implemental tower P McVillian	248 00
Tinning on hell tower D McKillicon	57 33 10 14
Mill work on hell tower—R McKillicen	$\begin{array}{cc} 12 & 14 \\ 88 & 25 \end{array}$
Hardware on hell tower—R. McKillican	9 30
Hoisting hell on hell tower—R. McKillican	115 00
Painting on hell tower—R. McKillican	36 82
Onethousand and twenty ft. surfaced redwood—Henry W. Taylor	33 66
Cartage and mill work—Henry W. Taylor	2: 50
Four thousand feet redwood—Henry W. Taylor	60 00
One Bradford stove—M. De La Montanya	16 00
Ten joints stove-pipe—M. De La Montanya.	3 00
One joint corrugated elbow—M. De La Montanya	65-
One joint damper—M. De La Montanya	25
Labor and cartage—M. De La Montanya	4 00
One dozen Yale locks—Justinian Caire	<b>12 00</b>
One dozen bolt plates—Justinian Caire	1 20
Four thousand one hundred cubic feet gas—Oakland Gas Co	10 25
Three joints stove-pipe—J. M. McNamara	75
John on some J. M. McNamara	25
One light nondent T. M. McNamara	1 00
Labor on game I M McNamara	2 50
Wash troy and connections I M MaNamara	1 00
Two sets costors Duplem Corrigon & Handen Co	5 00
Hinger and look Instinian Caire	1 90
Lag screws—Justinian Caire	1 00 20
Tour thousand cubic feet gas—Oakhand Gas Co.  Labor for month of February  Four bookcases, per agreement—Niehaus Bros. & Co.  One plain bookcase, per agreement—Niehaus Bros. & Co.  Thirty-six feet pine and cedar—Niehaus Bros. & Co.  Twenty-one feet hand rail—Niehaus Bros. & Co.  Twenty-one feet hand rail—Niehaus Bros. & Co.  Two hundred feet cove—Niehaus Bros. & Co.  Two gate hooks and eyes—J. W. Savage  Two draw pulls—J. W. McKillican  Lumber on bell tower—R. McKillican  Mill work on bell tower—R. McKillican  Hardware on bell tower—R. McKillican  Hardware on bell tower—R. McKillican  Hardware on bell tower—R. McKillican  Painting on bell tower—R. McKillican  One thousand and twenty ft. surfaced redwood—Henry W. Taylor  Coratage and mill work—Henry W. Taylor  One Bradford stove—M. De La Montanya  One joint stove-pipe—M. De La Montanya  One joint corrugated elbow—M. De La Montanya  One joint damper—M. De La Montanya  One joint stove-pipe—J. M. McNamara  One joint stove-pipe—J. M. McNamara  Labor on same—J. M. McNamara  Two sets casters—Dunham, Carrigan & Hayden Co.  Hinges and lock—Justinian Caire  Rope—Justinian Caire  Rope—Justinian Caire  Rope—Justinian Caire  Rope—Justinian Caire  Rope	1 25
Repairing door check—F. D. Morrell	1 50
Rope—Justinian Caire Repairing door check—F. D. Morrell Forty feet ash—Waterhouse & Lester One package string tags—Dutton & Partridge	4 50
One package string tags—Dutton & Partridge	30
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DISBURSEMENTS—Continued.		
Cleaning and regulating clocks—A. Settern  Two hundred and seventy-six lights, assorted sizes—Whittier,	<b>\$2</b> 5	60
Fuller & Co. One gallon alcohol—Whittier, Fuller & Co. Fifty pounds putty—Whittier, Fuller & Co.	235 3	<b>35</b>
Fifty pounds putty—Whittier, Fuller & Co.  Five gallons turpentine—Whittier, Fuller & Co. One glazier's diamond—Whittier, Fuller & Co. Four kegs 8d nails—Dunham, Carrigan & Hayden Co. Two kegs 3d nails—Dunham, Carrigan & Hayden Co.	13 8	s0 ·
		20
Seventy-five pounds brass castings—F. Baud.  Ninety-eight pounds bell-metal castings—F. Baud.  Ninety-two pounds brass castings—F. Baud.  One map of France—B. Westermann & Co.	22 5 39 2 27 6	20
One map of Spain—B. Westermann & Co.	6 5 4 4	60
One map of Spain—B. Westermann & Co.  Five hundred pounds Paris white—Whittier, Fuller & Co.  Fifty pounds E. W. glue—Whittier, Fuller & Co.  Fifty pounds plaster of Paris—Whittier, Fuller & Co.  One hundred wounds will be so to be seen and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	7 5 12 5	50
One hundred pounds yellow ocher—Whittier, Fuller & Co.  Twenty-five pounds venetian red—Whittier, Fuller & Co.	1 5 2 5	
One hundred pounds yellow ocher—Whittier, Fuller & Co.  Twenty-five pounds venetian red—Whittier, Fuller & Co.  Twenty-five pounds burnt umber—Whittier, Fuller & Co.  Ten pounds ult. blue—Whittier, Fuller & Co.  Three pounds lamp black—Whittier, Fuller & Co.  One 6-inch kalsomine brush—Whittier, Fuller & Co.  One 8-inch kalsomine brush—Whittier, Fuller & Co.  One walnut case for trophics—E Hook	3 ( 2 5	)0 50
One 6-inch kalsomine brush—Whittier, Fuller & Co	1 ( 2 2 3 5	25
One walnut case for trophies—E. Hook Advertising for painting—Oakland "Enquirer"	33 t	50 50
Advertising for painting—Oakland "Tribune"  Advertising for painting—Oakland "Times"  One dozen sash locks—I W Savaga	9 ( 5 8 1 8	50
One third dozen flush pulls—H. Rosekrans & Co	3 2	50 25
One half dozen lag screws—Savage Bros. One tape—Pierce Bros. Six dozen holders—C F Short	1 1 6 2 4	
One 8-inch kalsomine brush—Whittier, Fuller & Co. One walnut case for trophies—E. Hook Advertising for painting—Oakland "Enquirer" Advertising for painting—Oakland "Tribune" Advertising for painting—Oakland "Times" One dozen sash locks—J. W. Savage. One third dozen flush pulls—H. Rosekrans & Co. Repairing brush—E. Levenson. One half dozen lag screws—Savage Bros. One tape—Pierce Bros. Six door holders—C. F. Short. Proposals for painting—San Francisco "Chronicle" Proposals for painting—San Francisco "Examiner" Two brass hooks—Savage Bros.	22 4 15 4	17
One bronze lock—Dunham, Carrigan & Hayden Co	3 8	
One pair bronze butts—Dunham, Carrigan & Hayden Co	1	50
Repairing waste pipe—J. M. McNamara  Repairing shower bath—J. M. McNamara	1 ' 8 (	00
Time of plumber and helper—J. M. McNamara One pair bronzed buckets—Savage Bros. Five gallons elastic paint—Whittier, Fuller & Co.	4 ( 1 ( 12 (	00
One pair bronzed buckets—Savage Bros.  Five gallons elastic paint—Whittier, Fuller & Co.  Three lights—Whittier, Fuller & Co.  Three hundred feet T. and G. cedar—Niehaus Bros. & Co.  Two hundred and fifty-six feet molding—Niehaus Bros. & Co.	11 :	
Painting on buildings—G. C. Gottung Four globes—Jeffress, Mitchell & Co. Four ring holders—Jeffress, Mitchell & Co. Four hours labor—Jeffress, Mitchell & Co.	2 (	)0 )0
Four hours labor—Jeffress, Mitchell & Co.  Repairing telescope—J. Speak  Repairing roof of library—J. M. McNamara  Repairing two faucets in cottage—J. M. McNamara	2 ( 1 8 4 (	<b>50</b> .
Repairing two faucets in cottage—J. M. McNamara Repairing one closet—J. M. McNamara	1 8 2 5	50 50
Repairing one closet—J. M. McNamara One light—Whitier, Fuller & Co.  Two spools copper wire—Joseph McClain Two thousand one hundred cubic feet gas—Oakland Gas Co, Three thousand four hundred cubic feet gas—Oakland Gas Co.  Three thousand repairing leader—I. M. McNamara	7 7 4 5 2	ŀŌ ∹
	<b>*</b> •	50 30
Repairing roof and sewer—J. M. McNamara Repairing trap in Gymnasium—J. M. McNamara	5 7 5 (	
To Water Supply.		
Labor for month of JulyLabor for month of August	\$2 ( 2 (	)0 🖟
Labor for month of September Water for June—Alameda Water Co.	2 ( 5 {	

Water for September—Alameda Water Co.	\$13 74	
Labor for month of October	2 00	
Water for October—Alameda Water Co.	28 16	
Labor for month of November	2 00	
Surveying in Strawberry Cafion—W. G. Raymond	2 50	
Labor for month of December	4 00	
State and county taxes	2 00	
Town of Berkeley taxes	28 75 24 42	
Fees on affidavits—A. B. Merrill	2 00	
Services of engineer in examining site for reservoir—J. J. Cloud.	100 00	
Labor for month of January	2 00	
Water for December and January—Alameda Water Co.	67 96	
Water for February Alemede Water Co	2 00	
One 2 inch can. Alameda Water Co.	18 60 25	
Labor for month of March	2 00	
Water for March—Alameda Water Co.	28 35	
Labor for month of April	2 00	
Labor for month of May	2 00	
Water for September—Alameda Water Co. Labor for month of October. Water for October—Alameda Water Co. Labor for month of November. Surveying in Strawberry Cafion—W. G. Raymond. Two tracings—W. G. Raymond Labor for month of December State and county taxes. Town of Berkeley taxes Fees on affidavits—A. B. Merrill. Services of engineer in examining site for reservoir—J. J. Cloud. Labor for month of January Water for December and January—Alameda Water Co. Labor for month of February Water for February—Alameda Water Co. One 2-inch cap—Alameda Water Co. Labor for month of March Water for March—Alameda Water Co. Labor for month of March Labor for month of April Labor for month of May  To Advertising and Printing.	***************************************	<b>\$346</b> 69
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Printing six thousand seven hundred entrance examination papers—C. A. Murdock & Co.  Printing two hundred copies "Finance Committee Report"—C. A. Murdock & Co.  A. Murdock & Co.  Advertising entrance examination—San Francisco "Bulletin"  Advertising entrance examination—San Francisco "Call"  Advertising entrance examination—San Francisco "Chronicle"  Advertising entrance examination—San Francisco "Alta Cali-  Advertising entrance examination—San Francisco "Alta Cali-	<b>\$49</b> 35	
Printing two hundred copies "Finance Committee Report"—C.	<b>449.99</b>	
A. Murdock & Co.	18 00	
Advertising entrance examination—San Francisco "Bulletin"	8 60	
Advertising entrance examination—San Francisco "Call"	8 00	
Advertising entrance examination—San Francisco "Chronicle"	9 80	
Advertising entrance examination—San Francisco "Examiner"	9 80	
Advertising entrance examination—San Francisco "Alta Cali-	7 00	
Advertising entrance examination—San Francisco "Atta California".  Advertising entrance examination—San Francisco "Evening Post".  Advertising entrance examination—Los Angeles "Times".  Advertising entrance examination—Los Angeles "Herald".  Advertising entrance examination—Los Angeles "Evening Ex-	7 00	
Post"	7 00	
Advertising entrance examination—Los Angeles "Times"	4 25	
Advertising entrance examination—Los Angeles "Herald"	5 00	
Advertising entrance examination—Los Angeles "Evening Ex-		
Advertising entrance examination Oakland ((Tribune))	4 50 7 50	
Advertising entrance examination—Chico "Enterprise"	3 00	
Advertising entrance examination—Oakland "Times"	3 00 7 50	
Advertising entrance examination—Oakland "Enquirer"	3 00	•
Advertising entrance examination—Los Angeles "Evening Express"  Advertising entrance examination—Oakland "Tribune" Advertising entrance examination—Chico "Enterprise" Advertising entrance examination—Oakland "Times" Advertising entrance examination—Oakland "Enquirer" Advertising entrance examination—San Francisco "Report" Advertising entrance examination—Grass Valley "Tidings" Advertising entrance examination—Grass Valley "Union" Advertising entrance examination—Chico "Chronicle" Printing two hundred salary rolls—C. A. Murdock & Co. Printing proposed license agreement—C. A. Murdock & Co.	3 00 7 00	
Advertising entrance examination—Grass Valley "Tidings"	4 00	
Advertising entrance examination—Grass Valley "Union"	4 00	
Printing two hundred salary rolls—C. A. Murdock & Co.	$\begin{array}{c} 2 \ 50 \\ 12 \ 00 \end{array}$	_
Printing release of mortgage—C. A. Murdock & Co.	4 00	·
Printing proposed license agreement—C. A. Murdock & Co.	4 50	
Printing philosophy examination papers—C. A. Murdock & Co.	8 00	
Printing proposed license agreement—C. A. Murdock & Co. Printing philosophy examination papers—C. A. Murdock & Co. Printing one thousand University interest receipts—William C.	0.00	
Advantising manage loop Con Francisco ((Chronicle))	8 00	
Advertising money loan—San Francisco "Traminer"	3 60 2 10	
Advertising money loan—San Francisco "Bulletin"	2 65	
Brown  Advertising money loan—San Francisco "Chronicle"  Advertising money loan—San Francisco "Examiner"  Advertising money loan—San Francisco "Bulletin"  Advertising money loan—San Francisco "Call"  Advertising money loan—San Francisco "Post"  Advertising money loan—San Francisco "Report"  Calling meeting of Board—San Francisco "Alta California"  Calling meeting of Board—San Francisco "Alta California"  Printing one hundred cards for Reports—C. A. Murdock & Co.	2 65 1 75	•
Advertising money loan—San Francisco "Post"	1 50	
Advertising money loan—San Francisco "Report"	1 50	•
Calling meeting of Board—San Francisco "Chronicle"	90	
Printing one hundred cards for Recents C. A. Murdock & Co.	2 00 2 00	
Printing one hundred cards for Regents—C. A. Murdock & Co Printing one thousand applications—C. A. Murdock & Co Printing six thousand tickets and envelopes—C. A. Murdock & Co. Printing two thousand announcements of courses—C. A. Murdock & Co.	22 00	
Printing six thousand tickets and envelopes—C. A. Murdock & Co.	39 00	,
Printing two thousand announcements of courses—C. A. Mur-		•
dock & Co.	9 50	
dock & Co.  Advertising entrance examination—" Morning Times"	7 00	301 80
To Telegraphing and Expressage.		
Expressage Wells Fargo & Co	\$210 12	
Expressage—Patterson & Co.	92 30 19 41	
Expressage—Wells, Fargo & Co. Expressage—Patterson & Co. Freight—Southern Pacific Co.	19 41	

\$492

257

### DISBURSEMENTS—Continued.

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Telegraphing—Western Union Telegraph Co	\$36 54 129 01 4 95
To Official and Lecturing Expenses.	•
Traveling expenses of Mr. Letts	\$58 80 63 30 150 80 174 55 111 50 148 70 26 05 24 30 92 25 19 60 72 20 2 35 24 50
Traveling expenses of Mr. Phipps	2 35 20
Traveling expenses of Janitor	10 55
To Stationery.	
Supplies for Secretary's office	\$125 60
Supplies for Recorder's office	97 85
Supplies for President's office Supplies for Land office Supplies for English Department	<29 80 2 50
Supplies for English Department	1 80
·  -	
To Land Administration.	
Rebate on interest to John G. Busch	\$25 55
9, 1889	252 35
9, 1889 Services during that time—E. A. Norton Clerical services—Walter C. Allen	76 63 20 00
Fees on money orders—N. B. Byrne	15
Two boxes seals—H. S. Crocker & Co.	80
Returned money order—John Mullin	22 40
Postage stamps—N. B. Byrne————————————————————————————————————	50 00
Onit claim blanks, J. I. Trans	4 20 4 50
Quitclaim blanks—J. J. Evans Evangesege—Wells Force & Co	3 00
Expressage—Wells, Fargo & Co.	30
Expressage—Wells, Fargo & Co.  Expressage—Wells, Fargo & Co.  Searching records—John B. Mhoon.	5 00
Certified copy of list—J. H. Polk	1 35
One blank book—Cunningham, Curtiss & Welch	3 50
To Incidental Expenses.	
Premium on bond of Secretary—Pacific Surety Co.	<b>\$50 00</b>
One bag and marking—Mann & Beuedict Copying agreement with Western Union Telegraph Co.—Runge	10 00
Copying agreement with Western Union Telegraph Co.—Runge	1 15
& Elliott Copying Chapin contract—G. Mahoney Notary's fees, acknowledging two releases—A. B. Merrill	1 50
Notary's fees, acknowledging two releases—A. B. Merrill	2 00
Notary's fees, acknowledging one release—A. B. Merrill.  Notary's fees, acknowledging one release—A. B. Merrill.  Notary's fees, acknowledging one release—A. B. Merrill.  Copying agreement—Julia Harris.	. 1 00
Notary's fees, acknowledging one release—A. B. Merrill	1 00
Conving agreement Julia Harris	1 00 4 10
Copying agreement—Runge & Elliott	60
To College Celebrations.	
Six thousand cards, Commencement Exercises—C. A. Murdock	•
& Co	<b>\$21 00</b>
dock & Co.	23 00
Filling out thirty-nine diplomas—J. R. Southern	19 50
Addressing and mailing invitations—W. W. Deamer	10 50
dock & Co.  Filling out thirty-nine diplomas—J. R. Southern Addressing and mailing invitations—W. W. Deamer Two pieces ribbon—Kohlberg, Strauss & Frohman	2 70

	I		
Meals for musicians—J. S. Wright  Forty-three diplomas—Schmidt Label and Lithograph Co  One thousand programmes for Class Day—Louis Dreka  Four hundred dance programmes for Class Day—Louis Dreka	\$9 5 64 5 50 0 34 0	0	- 70
To Postage.		Ψ=0.	
Postage for Secretary's office Postage for Recorder's office	\$112 0 370 0		00
To Fuel.			
Seventy-eight tons Brymbo coal—T. H. Henderson Eight tons Seattle coal—T. H. Henderson Three tons one thousand one hundred and twenty pounds	\$776 1 67 6		
anthracite coal—T. H. Henderson Six tons one thousand one hundred and twenty pounds Well-	53 3	•	
ington coal—T. H. Henderson Fifteen gunny sacks—T. H. Henderson Seventy grain sacks—T. H. Henderson	71 5 1 5 3 5	0 0	
To Insurance.	,	- 973	07
Premiums on \$432,330—J. C. Mitchell & Son	• • • • • • • • • • • • • • • • • • • •	4,323	30
To Salaries.			
Administration To amount reserved for permanent improvements		10,223 25,000	
		\$101,205	89

# REPORT

OF THE

# Hoard of Trustees of State Normal Schools

FOR THE

Years ending June 30, 1889, and June 30, 1890.



#### SACRAMENTO:

TATE OFFICE, ::::: J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# REPORT OF TRUSTEES OF STATE NORMAL SCHOOL, SAN JOSÉ.

Office of the Board of Trustees of the State Normal School at San José, November, 1890.

To his Excellency R. W. WATERMAN, Governor:

Sir: We have the honor to submit the following detailed report of receipts and expenditures for carrying on the Normal School under our charge, for the fortieth and forty-first fiscal years. We ask a careful scrutiny of this report, believing it will afford the best guarantee of an economical expenditure of future appropriations.

The number in attendance upon the school is increasing annually, probably owing to the increased demand for teachers. For the next two fiscal years, to enable the school to do well the work for which it is

designed, the following appropriations will be needed:

For current expenses	82,000
For library	2.000
For care of grounds	4.000
For painting building For repairing building For museum	1,500
For repairing building	6,000
For museum	<b>5</b> 00
For manual training.	1,000

For a statement of the scholastic work of the school, we respectfully refer you to the catalogue and to the reports of the Principal herewith submitted. We particularly call attention to that part of the Principal's last report in which he speaks of the urgent necessity for the erection of a building especially for the Training Department.

We have the honor to be, very respectfully, your obedient servants,

RALPH LOWE, President Board of Trustees.

RUTH ROYCE, Secretary.

# REPORT OF PRINCIPAL OF SAN JOSE NORMAL SCHOOL

To the Board of Trustees of the State Normal School at San José:

GENTLEMEN: The work of the school year just closed has been hardly so satisfactory as the work of the preceding year. The inevitable friction attendant upon any radical change in course of study or terms, we have felt in its full force. And yet the school has done good work.

On the twentieth of December diplomas were granted to fifty-eight pupils, who at that time had completed the old course of study. The class was a strong one, and has done and will do the school credit. No public graduating exercises were held, and all were pleased at the quiet, unostentatious manner in which the diplomas were conferred. Of this class of fifty-eight, forty-six are now teaching or have taught since graduation, having readily secured positions. Five we know have not taught, in most cases because they did not desire immediately to begin work; and from seven we have no report.

We present now a class of seventy-one, who have done their work well, and will, we fully believe, work with zeal and intelligence in the

schools of the State.

It is perhaps remarkable how large a per cent of our graduates enter at once upon the work of teaching. Of the sixty-one graduated one year ago, all but four have taught or are now teaching. From one of the four we have no report.

STATISTICS.

There have applied for admission to the school during the year 25 candidates, viz.: 203 in September, 47 in January, and 3 in April, at the opening of the three respective terms. Of these, 172 were admitted we some class in the Normal School, and 81 were rejected or withdreweduring the examination. For the year, the entire enrollment has been in the various classes: Senior, 211; Middle, 136; Junior, 220; Training Department, 218. The total enrollment in all classes, 785; in the Normal Classes, 567; average for the year in Normal Classes, 472.

The highest number enrolled in the Normal Classes was in September, when the enrollment reached 509. The enrollment for the closing month, June, has been 415. During the year there has been representatives in the school from forty-seven counties in the State, distributed

as follows:

•	
Alameda 49	San Benito 11
Amador 3	San Bernardino 1
Butte 8	San Francisco 26
Calaveras2	San Joaquin 2
Colusa 3	San Luis Obispo 10
Contra Costa	San Mateo3
El Dorado 8	Santa Barbara
Fresno	Santa Clara195
Humboldt 14	Santa Cruz. 12
Inyo 1	Shasta 4
Kern	Sierra 4
Lake 6	Siskiyou 8
Lassen 3	Solano 11
Marin	Sonoma 9
Mariposa	Stanislaus2
Mendocino 7	Sutter4
Merced	Tehama 1
Modoc2	Trinity 2
Monterey 9	Tulare 7
Napa 15	Tuolumne 2
Nevada	Ventura1
Placer 11	Yolo 7
Plumas	Yuba 2
Sacramento	

Counties not represented: Alpine, Del Norte, Los Angeles, Mono, and San Diego.

This representation, in a State where the distances traveled are so great, is really surprising, and shows more clearly than any argument that this is a *State* school. True, the representation from Santa Clara County is 34 per cent of the enrollment, but this is not surprising. This is a large county, and the patronage of all such schools is drawn largely from a radius of forty or fifty miles. Many residing in Santa Clara County come from many miles away.

In addition to those enrolled from California, we have had from Colorado, 1; Honolulu, 2; Idaho, 3; Illinois, 1; Michigan, 1; Montana, 1; Nebraska, 1; Nevada, 6; Nova Scotia, 1; Oregon, 1; Pennsylvania, 1; Utah Territory, 1; Washington Territory, 3; Wisconsin, 3. These pupils are here, usually, expecting to teach in California, and all sign the condition made on entering.

MANUAL TRAINING.

During the year the different departments have worked harmoniously. I am glad to be able to report that the Industrial Department has become a marked success. Since the Board authorized the employment of a skilled mechanic to take charge of the work and give instruction, the interest has greatly increased, and the results are quite satisfactory. With so large a school it is impossible to give the manual training work to all pupils. Two Middle Classes and a part of a class from the Training Department have had much valuable training. The additional expense of the department is very small when compared with the desirable results attained.

In the Training Department proper, considerable attention has been given to instruction in clay modeling, as well as in needlework. To this work the pupils come as to an amusement, and it is therefore a respite from, rather than an addition to their study tasks. It also tends to the development of special talent—talent that in the near future may become valuable to society.

#### COURSE OF STUDY.

Referring to the changes made in terms and course of study, at the joint meeting of the Boards at Los Angeles, about a year ago, and the modifications made at the meeting at Chico, this year, I beg to report:

The year's trial of three terms a year, and only one set of classes, has but confirmed the opinion of the Faculty that it will be far better for this school to return to the plan of two terms a year, and also to the plan of carrying on two sets of classes. They believe the old plan best accommodates those who desire to avail themselves of the advantages of the school, and that it, also, enables the school to do better work for those who come. They therefore respectfully ask that the calendar, as now submitted, be adopted, and that the course of study, as herewith presented, be prescribed for this school. The calendar provides for two terms of twenty weeks each. The Course of Study, though changed somewhat in the order of succession of studies, is in general accord with the course as finally modified by the Boards in joint session at Chico.

#### CLOSING REMARKS.

It is well known to you, gentlemen, that for a portion of the year I have been unable to discharge the duties pertaining to my position. When I came to a full recognition of this fact, I asked for, and received, three months' leave of absence, without salary. During this period the duties of the principalship were satisfactorily discharged by the Vice Principal, Professor Childs. I need hardly suggest that for this period he should receive the salary of Principal.

Being convinced that the best interests of the school, as well as my own interest, demanded that I should no longer hold a position the duties of which I was unable to perform, on the sixth day of April I addressed a communication to the Chairman of the Board of Trustees, asking that my resignation, which has for some time been at their disposal, should be accepted, to take effect at the close of the present school year.

In closing my connection with you, gentlemen, it will not be out of

place if I refer briefly to our past work together.

On the first day of October, 1872, having been previously notified of my election to a position in the school, I reported to the Principal, Dr. Wm. T. Lucky, and was assigned to duty. On the fifth day of August, following, to my great surprise, I received official notice of my election as Principal of the school, and on the Tuesday morning following, assumed the duties of the position. I have, therefore, been connected with the school for nearly seventeen years, and have held the position of Principal for sixteen years.

During all this time my leading desire has been to build up and strengthen the school. To this work I have given whatever of ability!

possess, and I can but be gratified at the results attained.

The work, although at times severe, has always been pleasant, and can think of but two contingencies that would lead me willingly to give up a work that has claimed so much of my thought, and that I have be heartily enjoyed. One of these is an indication, upon your part, of desire that the position should be vacated. But your continued support, your many warm expressions of good will, and your appreciation

of the work of the school, give me the assurance that you have neither felt nor indicated such a desire.

The other contingency is my own ill health. This, I am sure you

will all understand, is imperative.

In returning to you the high trust which, years ago, you gave into my hands, I desire, in this formal manner, to express to you my thanks for your support and sympathy, and, I think I may add, your personal friendship. If the school has been a success, it is because you have ever given an intelligent support to all reasonable efforts to make it better, and because you have provided for and sustained all needed changes and improvements. The Faculty you have given me have been well selected, and they, too, have worked earnestly and faithfully to make the school what it should be. In the school and in its graduates I shall never lose my deep interest. May they go on achieving still greater good.

In conclusion, allow me to say to you, and, through you, to the Faculty, to the Alumni, and to the pupils yet remaining in the school, a good

bye in its old time meaning, "God be with you."

I am, very respectfully, your obedient servant,

CHAS. H. ALLEN, Principal.

San José, June, 1889.

# FINANCIAL REPORT

Of the State Normal School, San José, Cal., for the Fortieth Fiscal Year, ending June 30, 1886

Date of Auditing.	No. of Voucher	•	Dr.	Cr.
1888.	i			
2000.		Balance of appropriation from thirty-ninth	40.00	
	-	fiscal year, as per last report  Balance in Tuition Fund from thirty-ninth	\$2 06	
		Secol year as per last report	1,378 95	
		fiscal year, as per last report  Amount of appropriation for fortieth fiscal year	39,000 00	
	!	Amount of tuition collected for fortieth fiscal	· '	
	) i		3,480 50	
		Amount of library receipts, piano rent, etc.	150 00	
July 26		Paid for salaries for July, 1888		\$2,545
uly 26	T. 1	Paid for payroll on grounds, July, 1888		270
lug. 28		Paid for salaries for August, 1888.		2,705
Aug. 28	A. 1	Paid L. P. Hansen, Janitor supplies		8
Aug. 28	A. 2	Paid L. Aubert, cleaning and laying carpet		22
Aug. 28	A. 2 T. 2 T. 3	Paid for payroll on grounds, August, 1888		268 225
Aug. 28	T. 3 T. 4	Paid Presno Bros., Wood		220
Aug. 28	T. 4	Paid I. Possibles bandware		89
Aug. 28 Aug. 28	T. 5 T. 6	Paid S C V M & L Co skylights		1 8
lug. 28 lug. 28	古: 7	Paid Davis & Co., hardware		4
Aug. 28	T. 8	year Amount of library receipts, piano rent, etc. Paid for salaries for July, 1888 Paid for payroll on grounds, July, 1888 Paid for salaries for August, 1888 Paid L. P. Hansen, Janitor supplies Paid L. Aubert, cleaning and laying carpet Paid for payroll on grounds, August, 1888 Paid Presho Bros., wood Paid S. J. Foundry, repairs to engine Paid J. Boschken, hardware Paid J. Boschken, hardware Paid J. Boschken, bardware Paid Farmers Union, supplies Paid Farmers Union, supplies Paid Farmers Union, supplies Paid Gralaries for September, 1888 Paid Daunes & Van Doren, coal Paid C. F. Weber & Co., desks Paid E. L. Rugg, school apparatus Paid F. Happersberger, tools for Training Deparament.		28
oct. 1		Paid for salaries for September, 1888		2,800 1,094
Oct. 1	A. 3	Paid Daunes & Van Doren, coal		1,094
Oct. 1	A. 4	Paid C. F. Weber & Co., desks		37
Oct. 1	A. 5	Paid Sterling Furniture Co., desks		17
Oct. 1	A. 6	Paid E. L. Rugg, school apparatus		25
oct. 1	A. 7	Paid F. Happersberger, tools for Training De-		
		partment		50
Oct. 1	A. 8	Paid Margaret E. Schallenberger, apparatus for		32
) of 1	ا ما	Paid I Lion correct for platforms		52 22
Oct. 1	A. 9 A. 10	Paid McNoil Prog. bookbinding and printing		9
Oct. 1 Oct. 1	A. 10	Paid T K Black & Co polish		2
Oct. 1	A. 12	Paid C. H. Allen nostage and freight		2 17
Oct. 1	A. 13	Paid sundry papers advertising		22
Oct. 1	T. 9	Paid for payroll on grounds, September, 1888.		22 270
Oct. 1	T. 10	Paid R. S. Thompson, wood		176
Oct. 1	T. 10 T. 11 T. 12 T. 13 T. 14 T. 15	Paid P. J. Maguire, freight		26
Oct. 1	T. 12	Paid Presho Bros., redwood blocks		18
Oct. 1	T. 13	Paid Chas. Oeckel, hay		34
ct. 1	T. 14	Paid J. A. Belloli, supplies		12
ct. 1	T. 15	Paid William Grey, repairing engine		2 000
ot. 29		Paid for salaries for October, 1888		2,800
ot. 29	A. 14	Paid E. L. Rugg, school apparatus Paid F. Happersberger, tools for Training Department. Paid Margaret E. Schallenberger, apparatus for Training Department Paid L. Lion, carpet for platforms Paid McNeil Bros., bookbinding and printing. Paid T. K. Black & Co., polish Paid C. H. Allen, postage and freight Paid sundry papers, advertising Paid for payroll on grounds, September, 1888. Paid R. S. Thompson, wood Paid P. J. Maguire, freight Paid Presho Bros., redwood blocks Paid Presho Bros., redwood blocks Paid Chas. Oeckel, hay Paid J. A. Belloli, supplies. Paid William Grey, repairing engine. Paid For salaries for October, 1888 Paid T. Soper, carpenter work and material Paid Daniel McGinley, painting Paid Peter Decker, labor. Paid S. H. Wagener, drugs Paid Sunset Telephone Co., repairing apparatus Paid for payroll on grounds, October, 1888 Paid S. H. Wagener, drugs Paid for salaries for November, 1888 Paid E. B. Lewis, stationery Paid Charles C. Gerry, blackboard erasers Paid C. H. Allen, freight and hauling Paid H. S. Crocker & Co., mimeograph and		26 20
)ct. 29 )ct. 29	A. 15 A. 16	Poid Peter Decker labor		4
ot. 29	A. 10 A. 17	Paid S. H. Wagener draws		4
oct. 29	A. 18	Paid Sunset Telephone Co., renairing apparatus		14
et. 29	T. 16	Paid for payroll on grounds, October, 1888		14 268
oct. 29	T. 17	Paid S. H. Wagener, drugs		3
Nov. 28		Paid for salaries for November, 1888		2,800 176
Vov. 28	A. 19	Paid E. B. Lewis, stationery		176
lov. 28	A. 20	Paid E. H. Guppy & Son, stationery		44
Vov. 28	A. 21	Paid Charles C. Gerry, blackboard erasers		88
Nov. 28	A. 22	Paid C. H. Allen, freight and hauling Paid H. S. Crocker & Co., mimeograph and		•
Nov. 28	A. 23	raid n. S. Urocker & Uo., mimeograph and		97
Tor 90	Δ 94	Paid the John Stock Sone stove nine etc		19
10v. 20	A 25	Paid Tureman & Judah mirrore		27 19 6
10v. 20 Joy 98	A 98	Paid L. Lion, felt paper for herharium		Ď
Vov. 28	A. 27	Paid T. J. Rivers, labels		5 5 44 18 244 60 22
Nov. 28	A. 28	Paid R. S. Thompson, wood		44
Vov. 28	A, 29	Paid T. K. Black & Co., supplies		13
Vov. 28	T. 18	Paid for payroll on grounds, November, 1888		244
Tov. 28	T. 19	Paid H. S. Crocker & Co., mimeograph and supplies Paid the John Stock Sons, stove, pipe, etc		60
lov. 28	T. 20	Paid R. S. Thompson, wood		224 5
1 are 90 i	Tr 21	Paid Main & Brewster, wood		2,760

#### FINANCIAL REPORT-Continued.

Date of Auditing.	No. of Voucher		Dr.	Cr.
Dec. 24	A. 30	Paid H W A Nahl diplomas	j	\$84 00
Dec. 24	A. 31	Paid Bertha Warren, filling diplomas		28 50
Dec. 24	A. 32	Paid H. W. A. Nahl, diplomas		99 67
Dec. 24	A. 33	Paid A. Triant & Co., manilla paper		9 60
Dec. 24	A. 34	Paid McNeil Bros., postals and printing		9 35
Dec. 24	A. 35	Paid S. C. V. M. & L. Co., tables and racks		58 00
Dec. 24	A. 36	Paid George Denne, cases for specimens Paid T. Soper, carpenter work on tables and		9 00
Dec. 24	A. 37	Paid T. Soper, carpenter work on tables and		9K 00
D 94	A. 38	apparatus Paid Mrs. A.E.Bush, Curator, museum supplies		35 60 27 85
Dec. 24 Dec. 24				21 00
Dec. 24	A. 00	etc., six months  Paid S. H. Wagener, chemicals  Paid F. Kuchenbeiser & Son, grate bars, etc.  Paid Harvey & Graves, air cocks  Paid C. F. Willey, slating and putting on  Paid Sunset Telephone Co., box rent, six mo's  Paid Luby Goetr sowing wood	1	49 35
Dec. 24.	A. 40	Paid S. H. Wagener, chemicals		20 37
Dec. 24.	A. 41	Paid F. Kuchenbeiser & Son, grate bars, etc		43 65
Dec. 24	A. 42	Paid Harvey & Graves, air cocks		4 20
Dec. 24	A. 43	Paid C. F. Willey, slating and putting on		29 00
Dec. 24	A. 44	Paid Sunset Telephone Co., box rent, six mo's		15 00
Dec. 24	A. 45	Paid John Goetz, sawing wood		4 00
Dec. 24	T. 22 T. 23	Paid for payroll on grounds, December, 1888		259 25
Dec. 24	T. 23	Paid J. C. Corcoran, water pipes, etc.		352 30
Dec. 24	T. 24	Paid John Goetz, sawing wood Paid for payroll on grounds, December, 1888 Paid J. C. Corcoran, water pipes, etc. Paid S. C. V. M. & L. Co., skylights Paid Milton Campbell, repairing engine, etc. Paid J. Boschken, hardware and tools		51 00
Dec. 24	T. 25 T. 26	Paid I Resolven hardware and tools		35 80 14 10
Dec. 24 Dec. 24	T. 27	Paid F Kuchenheiser & Sen reneiring tools		13 50
Dec. 24	T. 28	Paid F. Kuchenbeiser & Son, repairing tools. Paid D. C. Dunn, painting signs. Paid John Goetz, sawing wood. Paid Geo. B. McKee & Co., glass, setting, etc		4 50
Dec. 24	T. 29	Paid John Goetz, sawing wood		4 00
Dec. 24	T. 30	Paid Geo. B. McKee & Co., glass, setting, etc.		12 10
1889.	00	Take Good St Months of States, Southern St.		
Jan. 24.		Paid for salaries for January, 1889		2,737 90
Jan. 24.	A. 46	Paid Sterling Furniture Co., desks and freight.		43 80
Jan. 24	A. 47	Paid Sterling Furniture Co., desks and freight. Paid S. J. Furniture Mfg. Co., chairs and stools.		41 00
Jan. 24	A. 48	Paid S. J. Gas Co., gas, six months		65 10
Jan. 24	A. 49	Paid Geo. B. McKee & Co., setting glass, etc		9 10
Jan. 24	A. 50	Paid S. J. Furniture Mfg. Co., chairs and stools Paid S. J. Gas Co., gas, six months. Paid Geo. B. McKee & Co., setting glass, etc Paid T. K. Black & Co., Janitor supplies Paid Frank E. Smith, cleaning clocks. Paid C. F. Willey, slating Paid Margaret E. Schallenberger, apparatus Paid Daunes & Van Doren, coal. Paid for payroll on grounds, January, 1889. Paid Farmers Union, supplies. Paid C. R. Hanaford, hay Paid J. A. Belloli, supplies. Paid J. A. Belloli, supplies. Paid H. Messing & Son, repairing harness. Paid H. Messing & Son, repairing harness. Paid for salaries for February, 1889. Paid Ruth Royce, services as Secretary, six mo's Paid for payroll on grounds, February, 1889.		2 60
Jan. 24	A. 51	Paid Frank E. Smith, cleaning clocks		3 50
Jan. 24	A. 52	Paid C. F. Willey, slating		3 00
Jan. 24 Jan. 24	A. 53	Paid Margaret E. Schallenberger, apparatus		28 27
Jan. 24	A. 54	Paid for powerful on grounds January 1990		18 00 187 00
Jan. 24.	T. 31 T. 32	Paid Formore Union cumplies		34 78
Jan. 24	T. 33	Poid C. R. Honoford hav		16 34
Jan. 24	下 34	Paid I A Relloli supplies		10 43
Jan. 24.	T. 34 T. 35	Paid A. Greeninger, renairing cart		6 00
Jan. 24	T 36	Paid H. Messing & Son, repairing harness		1 70
Feb. 28		Paid for salaries for February, 1889		2,560 40
reb. 28	1	Paid Ruth Royce, services as Secretary, six mo's		75 00
Feb. 28.		Paid for payroll on grounds, February, 1889		185 00
Feb. 28 Feb. 28		Paid E. B. Lewis, stationery		138 58
Feb. 28	A. 56	Paid S. C. V. M. & L. Co., desks, etc.		94 42
Feb. 28	A. 57	Paid for payroll on grounds, February, 1889 Paid E. B. Lewis, stationery Paid S. C. V. M. & L. Co., desks, etc Paid Chas. Fisher & Co., brooms Paid sundry papers, advertising Training Depart-		3 50
	A. 58	raid sundry papers, adverusing 1 raining Depart-		9 10
Fal as	A. 59	ment Paid T. Soper, carpenter work and material Paid C. W. Childs expenses spraying trees		25 30
Feb. 28	Δ. υσ	Doid C W Childs owners and material		53 70
Feb. 28.	- TP 27			
Feb. 28	T. 37	Paid R. D. Fox. trees		
Feb. 28 Mar. 28	T. 37 T. 38	Paid R. D. Fox, trees		8 25
Feb. 28 Mar. 28 Mar. 28	T. 37 T. 38	Paid R. D. Fox, trees		8 25 2,662 90
Feb. 28. Mar. 28. Mar. 28. Mar. 28.	T. 37 T. 38 A. 60	Paid R. D. Fox, trees  Paid for salaries for March, 1889  Paid for payroll on grounds, March, 1889  Paid J. C. Corcoran, plumbing repairs		8 25 2,662 90 187 50 109 45
Feb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80
Feb. 28 Feb. 28 Mar. 28 Mar. 28 Mar. 28 Mar. 28 Mar. 28	A. 60 A. 61 A. 62	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80
Feb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80 15 50
Feb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61 A. 62 A. 63	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80 15 50
Feb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61 A. 62 A. 63 A. 64	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80 15 50 11 51 7 15
Feb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61 A. 62 A. 63 A. 64 A. 65	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80 15 50 11 51 7 15
reb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61 A. 62 A. 63 A. 64 A. 65 A. 66	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80 15 50 11 51 7 15 5 00
reb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61 A. 62 A. 63 A. 64 A. 65 A. 66	Paid R. D. Fox, trees		8 25 2,662 90 187 50 109 45 12 80 15 50 11 51 7 15 5 00 10 60 16 94
reb. 28. Feb. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28. Mar. 28.	A. 60 A. 61 A. 62 A. 63 A. 64 A. 65 A. 66	Paid R. D. Fox, trees Paid for salaries for March, 1889 Paid for payroll on grounds, March, 1889 Paid J. C. Corcoran, plumbing repairs Paid Sterling Furniture Company, desks. Paid S. Soper, carpenter work and material Paid Kindergarten Supply Co., material for industrial training Paid T. K. Black & Co., supplies Paid Steve Chaize, brass work Paid Cunninghan, Curtiss & Welch, drawing paper Paid C. R. Hanaford, hay Paid John Stock Sons, repairs		8 25 2,662 90 187 50 109 45 12 80 15 50 11 51 7 15 5 00

## FINANCIAL REPORT—Continued.

Date of Auditing.	No. of Voucher		Dr.	Cr
4 :205		7.126 1 2 4 2 4000		011.00
April 25		Paid for salaries for April, 1889		\$2,962
April 25 April 25	A. 67 A. 68	Paid D. Mencarini, plaster casts		90
April 25	A. 69	Paid I Roschken hardware and tools		33 17
April 25	A. 70	Paid S. J. Foundry, track for heliostat		18
April 25.	A. 71	Paid S. J. Foundry, track for heliostat Paid S. H. Wagener, chemicals Paid Frank E. Smith, repairing gong Paid O. A. Hale & Co., toweling Paid H. Messing & Co., feather dusters		-3
April 25.	A. 72	Paid Frank E. Smith, repairing gong		• 4
April 25	A. 73	Paid O. A. Hale & Co., toweling		15
April 25.	A. 74	Paid H. Messing & Co., feather dusters		8
April 25.	A. 75	Paid Calice & Hutchison, soap Paid Mrs. A. C. Allen, washing towels Paid C. F. Weber & Co., Appleton's chart		2
April 25	A. 76	Paid Mrs. A. U. Allen, Washing towels		. 3
April 25	A. 77	Paid U. F. Weber & Co., Appleton's chart		15
April 25.	A. 78	Paid John P. Naas, carpenter work		31
April 25		Paid Ralph Lowe, traveling expenses to Chico, joint Board meeting Paid T. Ellard Beans, traveling expenses to		44
April 25		Paid T Ellard Reans traveling expenses to		73
11pm 20		Chico, joint Board meeting		44
April 25		Chico, joint Board meeting Paid L. Archer, traveling expenses to Chico,		
		joint Board meeting		44
April 25		joint Board meeting. Paid T. H. Laine, traveling expenses to Chico,		
•		ioint Board meeting	l	44
April 25		Paid for payroll on grounds, April, 1889		192
April 25.		Paid F. Kuchenbeiser & Son, repairing tools		5
April 25	T. 44	Paid Farmers IInian Sunnites	1 1	1
May 29		Paid for salaries for May, 1889 Paid Milton Campbell, plumbing, repairing,		2,962
May 29	A. 79	Paid Milton Campbell, plumbing, repairing,		***
34 00	4 00	and hardware		32 30
May 29	A. 80	Paid J. P. Naas, carpenter work.		10
May 29 May 29	A. 81 A. 82	Paid A Prient & Co manilla nanar		.9
May 29	A. 83	Paid P. W. Nahl, diplomas Paid A. Friant & Co., manilla paper Paid Educational Publishing Co., charts		6
May 29	A. 84	Paid E R Lewis stationery		.7
May 29.	A. 85	Paid E. B. Lewis, stationery Paid Mrs. A. C. Allen, washing towels		.7
May 29.	T. 45	Paid for payroll on grounds, May, 1889		347
May 29	T. 46	Paid for payroll on grounds, May, 1889 Paid Farmers Union, hose, couplings, etc		154
May 29	T. 47	Paid John Stock Sons, hose		125
May 29	T. 48	Paid John Stock Sons, hose Paid Milton Campbell, sprinklers, etc. Paid C. R. Hanaford, hay Paid W. W. Lipe, sawing wood Paid U. W. Lipe, sawing wood		55
May 29	T. 49	Paid C. R. Hanaford, hay		11
May 29	T. 50	Paid W. W. Lipe, sawing wood		3
May 29	T. 51	Paid Laura Bethell, decorations		5 57
May 29	T. 52	Paid Laura Bethell, decorations Paid Chas. Grant, wood Paid for salaries for June, 1889		3,012
June 21	A 00	Paid Bertha Warner, filling diplomas		36
June 21 June 21	A. 86 A. 87	Poid Mrs A E Rush museum expenses		28
June 21	A. 88	Paid Mrs. A. E. Bush, museum expenses Paid C. H. Allen, traveling expenses Paid J. P. Naas, carpenter work Paid J. Boschken, tools and hardware		15
June 21	A. 89	Paid J. P. Naas, carpenter work		30 20
June 21	A. 90	Paid J. Boschken, tools and hardware		20
June 21	A. 91	Paid Geo. B. McKee & Co., varnish, etc.		8
June 21	A. 92	Paid Geo. B. McKee & Co., varnish, etc. Paid O. A. Hale & Co., cloth for screen		2
June 21	A. 93	Paid G. Schoof, supplies for molding Paid Mrs. Lizzie P. Wilson, supplies		. 5
June 21	A. 94	Paid Mrs. Lizzie P. Wilson, supplies		10
June 21	A. 95	Paid Mary P. Adams, supplies  Paid Margaret E. Schallenberger, supplies  Paid A. Steiger Sons, molding clay  Paid Mrs. A. C. Allen, washing towels		21
June 21	A. 96	Paid Margaret E. Schallenberger, supplies		15
June 21	A. 97	Paid A. Steiger Sons, molding clay		7
June 21	A. 98 A. 99	Paid W. T. Garratt & Co., pumps for buildings		•
June 21	A. 00	and grounds	ł	802
June 21	A. 100	Paid C. H. Allen, freight and hauling on pumps.		10
June 21		Paid Milton Campbell, fitting and setting up		
7 CALC MILL		pumps	l <b></b>	167
June 21	T. 53	Paid for payroll on grounds, June, 1889		273
June 21	T. 54	Paid Main & Co., wood	ll	72
June 21	T. 55	Paid Chas. Grant, wood		44
June 21	T. 56	Paid Milton Campbell, hose nipples	<b></b>	5
June 21	T. 57	Paid Teachers' Training Department expenses,		10
		Washington inaugural celebration		70
July 2		Paid C. W. Childs, extra services as Principal,		300
		three months		300
July 2		Paid Ruth Royce, services as Secretary, six	'	75
	'	months		•

## FINANCIAL REPORT—Continued.

Date of Auditing.	No. of Voucher	•	Dr.	Cr.	
July 2	A. 102	Paid S. C. V. M. & L. Co., lumber		\$56	16
July 2	A. 103			33	60
July 2	A. 104	Paid Sunset Telephone Co., box rent six months.		15	00
July 2	A. 105	Paid McNeil Bros., commencement printing		19	75
July 2	A. 106	Paid C. H. Allen, commencement expenses		15	65
July 2	A. 107	Paid A. R. Denike, tuning pianos		8	00
nlv 2	A. 108	Paid Geo. Denne, frame		1 3	00
(alv 2	T. 58	Paid E. Main & Co., wood		12	00
mlv 2	IN 50 I	Paid C. R. Hanaford hav		14	
uly 2	T. 60	Paid J. A. Belloli, barley Paid David Walsh, blacksmithing Paid Ruth Royce, Secretary, postage, express, etc., six months Paid McNoil Bros., paper		6	55
uly 2	T. 61	Paid David Walsh, blacksmithing		10	35
uly 2	T. 62	Paid Ruth Royce, Secretary, postage, express,			
-	1 1	etc., six months		91	
Taly 2	T. 63	Paid McNeil Bros., paper		4	15
fuly 2	T. 64	Paid National Bank of D. O. Mills & Co., for-		1	
	{	warding warrants		5	00
luly 2	T. 65	Paid W. T. Garratt & Co., castings for pumps		59	
July 2	T. 66	Paid W. T. Garratt & Co., castings for pumps_ Paid F. Kuchenbeiser & Son, blacksmithing		13	
Taly 2	T. 67	Paid J. P. Naas, carpenter work		28	55
	1	Total amount expendedBalance in Tuition Fund at close of fortieth		\$43,748	38
	ļ }	Balance in Tuition Fund at close of fortieth			
		fiscal year		263	15
		Totals	\$44.011.51	\$44.011	51
			,, · 01	,	
	<u>'</u>		<u> </u>		_

SUMMARY OF ABOVE REPORT.						
	Dr.	Cr.				
Total income for fortieth fiscal year         \$33,762 71           Paid for stationery         511 73           Paid for bookbinding and printing         8 05           Paid for furniture and apparatus         894           Paid for fuel and gas         1,260 52           Paid for general supplies         436 84           Paid for repairs and improvements         351 46           Paid for miscellaneous expenses         588 90           Total expended for support of school	\$44,011 51	\$37,813 62				
Total expended for care and improvement of grounds		\$5,934 76 263 13				
Totals	\$44,011 51	\$44,011 51				

# SPECIAL APPROPRIATION FOR THE USE OF LIBRARY.

		<del></del>		
Date of Auditing.	No. of Voucher		Dr.	Cr.
1888.				
2000.		Amount of appropriation fortieth year	\$1,000 00	
		Balance of appropriation from thirty-ninth	98 35	
Oct. 1	1	year, as per last report Paid A. Waldteufel, Encyclopædia Britannica,	JO 00	
0000	-	Vol. 23		\$10
Oct. 1	2	Paid H. A. Saxe, atlas. Paid Mrs. Kate H. Keese, agent, book		7
Oct. 1	3	Paid Mrs. Kate H. Keese, agent, book		21
Oct. 29	4	Paid E. H. Guppy & Son, readers		5 54
Oct. 29	5	Paid E. H. Guppy & Son, readers		54
Dec. 24 Dec. 24		Paid van Antwerp, Bragg & Co., text-books		74
Dec. 24	7 8	Paid the I Dewing Co. books		10
Dec. 24	9	Paid Alden Publishing Co., books Paid the J. Dewing Co., books Paid McNeil Bros., bookbinding		51 91
		and McCross Bross, booksmanig		91
1889.	i		İ	1
Jan. 24		Paid McNeil Bros., bookbinding		36
Jan. 24	11	Paid McNeil Bros., bookbinding		-
T3-1 00	10	( Vol. 24		10
Feb. 28 April 25		Paid C. W. Cutler, agent, books		121
April 25		Paid C. W. Cutler, agent, books Paid McNeil Bros., bookbinding Paid Mrs. Belle Chandler, agent, "Panorama of		29
Mp11120	13	Nations"		54
April 25	15	Paid History Co. 4 vols Rangroff's History		00-8
Mav 29	16	Paid E. B. Lewis, books		124
May 29	17	Paid E. W. Maynard, assignee, books		57
May 29	18	Paid E. B. Lewis, books Paid E. W. Maynard, assignee, books Paid Mrs. M. Hardenbrook, agent, "Blair's Tem-		
36 00		1 Derance Wovement."	I	3
May 29	19 20	Paid L. P. McCarty, "Statistician" for 1889. Paid Elinor Spencer, agent, "Heroines of His-		. 4
May 29	20	Paid Ellnor Spencer, agent, "Heroines of His-		2
June 21	21	tory" Paid E. B. Lewis, books Paid Chas. H. Wheeler, charts		170
July 2		Paid Chas. H. Wheeler, charts		65
July 2	23	Paid L. R. Reid, books		29
July 31	24	Paid L. R. Reid, books Paid E. B. Lewis, books Paid E. B. Lewis, books		89
July 31	25	Paid E. B. Lewis, books		147
July 31	26	Paid Norton Memorial Fund, books		5]
July 31	27	Paid Ruth Royce, Librarian, inagazines and		
July 31	28	papers Paid Bancroft Bros. & Co., encyclopædias	·	61 80
July 31		Paid E. W. Maynard, assignee, books		16
July Ot	20	and 12. 11. Itajianu, annighee, books		103
	1	Totals	\$1,098 35	\$1,098
				. ,,

# REPORT OF EXPENDITURES FROM APPROPRIATION FOR BUILDIN BRANCH STATE NORMAL SCHOOL AT CHICO, CAL. (ACT APPROVIMABER 9, 1887.)

Date Audit		No. of Voucher		Dr.	Cr.
188	7.		Amount of appropriation	\$50,000	,
Dec.	9	1	Paid Sacramento Publishing Co., advertising	400,000	\$18
Dec.	9	2	Paid Sacramento Publishing Co., advertising		\$18 24 12 14
Dec.	9	3	Paid "Sentinel." advertising		12
Dec.	9	4	Paid Chico "Enterprise," advertising		14
Dec.	9	5	Paid S. Roycroft, foreman, supplies for brick-		102
Dec.	9	6	Paid S. Roycroft, foreman, payroll at brick-	`	278
Dec.	9	7	Paid for payroll, preparing grounds		100
Dec.	9	8	Paid for payroll, preparing grounds Paid San Francisco "Chronicle," advertising		51
Dec.	9	9 [	Paid Anderson "Enterprise," advertising.		100 57 125 300 150 288
Dec.	9	10	Paid S. Roycroft, payroll at brickyard		129
Dec.	9	11			800
Dec.	9	12	Paid for payroll, preparing grounds		150
Dec.	9	13	Paid for payroll, preparing grounds		28

## FINANCIAL REPORT-Continued.

Date	e of ting.	No. of Voucher	2	Dr.	Cr.
Audi		1		l	
Dec.	9	14	Paid for telegrams Paid for labor, preparing grounds Paid for payroll, laying foundation Paid M. T. Brown, labor Paid Davis & Cowell, cement Paid freight on cement Paid express charges Paid express charges Paid express charges Paid express charges Paid express charges Paid express charges Paid express charges Paid express charges Paid express charges Paid express charges		\$1 33
Dec.	9	15 16	Paid for labor, preparing grounds		508 59 729 97
Dec.	9 9	17	Paid M. T. Brown, labor		10 50
Dec.	9	18	Paid Davis & Cowell, cement		210 00
Dec.	9	19	Paid freight on cement		67 88
Dec.	9	20 21	Paid express charges		25 60
Dec. Dec.	9 9	22	Paid express charges		90
Dec.	9	23	Paid express charges		95
Dec.	9	24	Paid express charges		1 20
Dec.	9	25	raid express charges		35
18		26	Doid Davis & Correll coment		010.00
Mar. Mar.	2 2	26 27	Paid Albert Smith labor and board of man		210 00 6 50
Mar.	3	28	Paid W. A. Perkins, shovel		75
Mar.	2	29	Paid Davis & Cowell, cement		210 00
Mar.	2	30 31	Paid for payroll on building		$\begin{array}{c} 245 & 80 \\ 2 & 00 \end{array}$
Mar. Mar.	2	32	Paid sundry parties, sand		128 08
Mar.	2	33	Paid sundry parties, sand		118 89
Mar.	2	34	Paid sundry parties, sand		74 06
Mar. Mar.	2	35 36	Paid Davis & Cowell coment		$\begin{array}{c} 25 \\ 210  00 \end{array}$
Mar. Mar.	2	37	Paid for payroll, excavations and foundation		358 10
Mar.	2	38	Paid Davis & Cowell, cement		210 00
Mar.	2	39	Paid S. P. Co., freight on cement.		67 04
Mar. Mar.	2 2	40 41	Paid S. P. Co., freight on brick		3 75 35 <b>10</b>
Mar.	2	42	Paid S. P. Co., freight on cement		67 12
Mar.	2	43	Paid Postal Telegraph Co., telegraphing		1 29
Mar. Mar.	2	44	Paid Western Union Co., telegraphing		7 51
Mar.	2 2	45 46	Paid for payroll, excavations and foundation		35 10 67 60
Mar.	-2 - 1	47	Paid S. P. Co., freight on brick		35 10
Mar.	21	48	Paid W. H. Geiger, drayage		1 00
Mar. Mar.		49 50	Paid sundry persons, gravel		$\begin{array}{c} 38 & 70 \\ 227 & 45 \end{array}$
Mar.	2	51	Paid L. M. Coggins, lumber		397 98
Mar.	2	52	Paid S. P. Co., freight on cement.		66 93
Mar. Jan.	2	53	Paid Wells, Fargo & Co., express.		60
Mar.	2	54 55	Paid S Roycroft labor on brickward		1,000 00 474 25
Mar. Mar.	2	56	Paid S. Roycroft, supplies, brickyard		395 37
Mar.	2	57	Paid Davis & Cowell, cement Paid Albert Smith, labor and board of man Paid W. A. Perkins, shovel Paid Davis & Cowell, cement Paid for payroll on building Paid W. H. Geiger, drayage Paid sundry parties, sand Paid sundry parties, sand Paid sundry parties, sand Paid sundry parties, sand Paid sundry parties, sand Paid express charges Paid Davis & Cowell, cement Paid for payroll, excavations and foundation Paid Davis & Cowell, cement Paid B. P. Co., freight on cement Paid S. P. Co., freight on brick Paid S. P. Co., freight on brick. Paid S. P. Co., freight on brick. Paid Postal Telegraph Co., telegraphing Paid Western Union Co., telegraphing Paid Western Union Co., telegraphing Paid S. P. Co., freight on brick. Paid for payroll, excavations and foundation Paid S. P. Co., freight on brick. Paid for payroll, excavations and foundation Paid S. P. Co., freight on brick. Paid Gor payroll, foundation Paid W. H. Geiger, drayage. Paid sundry persons, gravel Paid Wells, Fargo & Co., express. Paid Percy & Hamilton, plans. Paid S. Roycroft, labor on brickyard Paid S. Roycroft, labor on brickyard Paid S. Roycroft, labor, board of men, etc., brickyard Paid S. P. Co., lumber.		***
Mar.	2	58	brickyard Paid Sierra Lumber Co., lumber		119 14 11 54
Mar	2	59	Paid J. F. Redford, merchandise Paid Chico Water Co., pipes and water Paid S. P. Co., freight on cement Paid S. P. Co., freight on tools Paid S. P. Co., freight on cement Paid S. P. Co., freight on cement Paid S. P. Co., freight on cement		1 00
Mar. Mar.	2	60	Paid Chico Water Co., pipes and water		136 09
Mar	2	61 62	Paid S. P. Co., freight on cement		66 19
Mar.	2	63	Paid S. P. Co., freight on tools		17 11 1 54
Mar.	2	64	Paid S. P. Co., freight on cement		66 87
Mar. Mar.	2	65	Paid E. L. Ransome, rent of mixer		161 70
Mar.	9 1	66 67	Paid Sierra Lumber Co. Lumber		1 50 110 08
Mar.	2	68	Paid Davis & Cowell, cement		210 00
Mar. Mar.	Z	69	Paid for payroll on building		200 30
Mar	2	70.	Paid Jas. McGann, surveying		18 75
Mar.	2	$\begin{bmatrix} 71 \\ 72 \end{bmatrix}$	Paid Sierra Lumber Co., lumber		210 00 1 33
Mar. Mar	2.	73	Paid W. H. Geiger, drayage		1 00
Mar	2	74	Paid S. P. Co., freight on cement		66 70
Man.	~ ~ ~	75   76	Paid for payroll on building		26 04 239 65
Mar.	2	77	Paid S. P. Co., freight		259 65
war.	2.	78	Paid Whittier, Fuller & Co., merchandise		58 50
Mar.	$\frac{2}{2}$	79	Paid Davis & Cowell, cement.		210 00
		80	Paid S. P. Co., freight on cement Paid E. L. Ransome, rent of mixer Paid "Morning Chronicle," advertising Paid Sierra Lumber Co., lumber Paid Davis & Cowell, cement Paid for payroll on building Paid Jas. McGann, surveying Paid Davis & Cowell, cement Paid Sierra Lumber Co., lumber Paid Sierra Lumber Co., lumber Paid W. H. Geiger, drayage Paid S. P. Co., freight on cement Paid E. L. Ransome, iron bars Paid for payroll on building Paid S. P. Co., freight Paid Whittier, Fuller & Co., merchandise Paid S. P. Co., freight on cement Paid S. P. Co., freight on cement		69 60

## FINANCIAL REPORT-Continued.

## FINANCIAL REPORT—Continued.

	TINNOIAL IMPORT—Continued.				FINANCIAL REPORT—Continued.				,
Date of Auditing.	No. of Voucher		Dr.	Cr.	Date of Auditing.	No. of Voucher		Dr.	Cr.
Mar. 2	81	Paid for payroll on building		270	- 20	148	Paid Sierra Lumber Co., lumber	} <b>!</b>	\$208 12
Mar. 2	82	Paid E. L. Ransome, rent of tools.		\$78 141	May 30 June 18	149	Paid J. Bidwell and A. H. Crew, traveling exp.		13 60
Mar. 2	83	Paid S. P. Co., freight	 	-11	June 18	150	Paid Sierra Lumber Co., lumber		327 66
Mar. 2	84	Paid P. P. Tel. Co., telegraphing		1.7	Inne 18	151	Paid Sierra Lumber Co., lumber		420 16
Mar. 2	85	Paid for payroll on building	<b></b>	31	Into 30	152	Paid Hubbard & Earll, hardware		109 17
Mar. 2	86	Paid W. H. Geiger, drayage		1	July 30	153	Paid W. H. Sherwood, blacksmithing		62 20
Mar. 2 Mar. 2	87 88	Paid for payroll on building		52.0	July 30	154	Paid Nichols & Hawkins, hardware		207 00 210 00
Mar. 2 Mar. 2	89	Paid for payroll on building Paid W. H. Sherwood, blacksmithing		75 18	July 30	156 157	Paid Davis & Cowell, cement		210 00
May 30	90	Paid Nichols & Hawkins, merchandise		94 @	July 30 July 30	158	Paid John Henry, drayage		5 50
May 30	91	Paid John Bidwell, weighing sand		84 7	July 30	159	Paid J. G. Childers, gravel		28 16
May 30	92	Paid J. W. Crowley, loading bricks.		168	July 30	160	Paid W. A. Twitchell, gravel		20 79
May 30	93	Paid W. Chalmers, advertising		7	July 30	161	Paid J. B. Hall, gravel		43 64
May 30	94 95	Paid Davis & Cowell, cement		210	July 50	162	Paid A. J. Bryan, expenses		73 20 283 25
May 30 May 30	96	Paid S. P. Co., freight on cement Paid W. H. Sherwood, blacksmithing		66 <b>6</b>	July 30 July 30	163 164	Paid for payroll on building Paid for payroll on building		20 50
May 30	97	Paid Thos, Scott, unloading brick		1 44 6	July 30	165	Paid for payroll on building.		$287\ 25$
May 30	98	Paid Hubbard & Earll, merchandise		136 %	l Inlv 30l	166	Paid for payroll on building		277 25
May 30	99	Paid Chico Water Co., water		1414	Inly 30	167	Paid for payroll on building		227 37
May 30	100	Paid Sierra Lumber Co., lumber		546.	July 30	168	Paid petty cash bills, sundries		61 77
May 30	101	Paid Whittier, Fuller & Co., merchandise		12	July 30	169	Paid J. T. Davis, services and expenses		$\begin{array}{c} 20\ 00 \\ 2,736\ 34 \end{array}$
May 30 May 30	102 103	Paid John Bidwell, traveling expenses Paid Park Montgomery, services and expenses		0	July 30 July 30	170 171	Paid Sierra Lumber Co., lumber Paid J. F. Newman, merchandise and labor		118 75
may oo	100	at brickvard		38 4	July 30	172	Paid for payroll on building		203 75
May 30	104	at brickyard Paid J. R. Gleeson, Secretary, traveling ex-			July 30	173	Paid S. P. Co., freight on cement		67 05
		penses		18 3	July 30	174	Paid S. P. Čo., freight on cement		69 84
May 30	105	Paid Davis & Cowell, cement		210 0	July 30	176	Paid S. P. Co., freight on brick		30 60
May 30	106	Paid S. P. Co., freight on cement		66 8 20 0	Aug. 28	177	Paid for payroll on building Paid Sierra Lumber Co., lumber		326 00 521 89
May 30 May 30	107 108	Paid Sacramento Publishing Co., advertising Paid S. P. Co., freight on brick		20 m 35 10	Aug. 28 Aug. 28	178 179	Paid for payroll on building		330 35
May 30	109	Paid S. P. Co., freight on brick		43 8	Aug. 28	180	Paid for payroll on building		229 75
May 30	110	Paid S. P. Co., freight on brick		70.2	Aug. 28.	181	Paid for payroll on building Paid E. L. Ransome, artificial stone		414 29
May 30	111	Paid S. P. Co., freight on brick		35 fi	Aug. 28	182	Paid L. M. Coggins, lumber		39 90
May 30	112	Paid S. P. Co., freight on brick		35 1	Ang. 28	183	Paid S. P. Co., freight on lumber		150 18
May 30	113 114	Paid S. P. Co., freight on brick Paid S. P. Co., freight on brick		35 1 46 2	Aug. 28 Aug. 28	184 185	Paid S. P. Co., freight on cement Paid Davis & Cowell, cement		67 80 210 00
May 30 May 30	115	Paid S. P. Co., freight on brick		70 2	Aug. 28	186	Paid Z. W. Burnham, brick		1,239 32
May 30	116	Paid S. P. Co., freight on brick		35 1	Aug. 28.	187	Paid Robbie & Bruce, labor and material		87 30
May 30	117	Paid S. P. Co., freight on brick		35 🌡	Aug. 28	188	Paid Sierra Lumber Co., lumber		748 18
May 30	118	Paid S. P. Co., freight on brick		70 3	Aug. 28	189	Paid J. F. Newman, merchandise		52 00
May 30	119	Paid S. P. Co., freight on brick		81 <b>9</b> 35 N	Aug. 28 Oct. 1	190	Paid for payroll on building		382 50
May 30 May 30	120 121	Paid S. P. Co., freight on brick Paid S. P. Co., freight on brick		35 H	0ct. 1	191 192	Paid for payroll on building Paid for payroll on building		436 50 652 25
May 30	122	Paid S. P. Co., freight on brick		35 1	0ct. 1	193	Paid for payroll on building		770 85
May 30	123	Paid S. P. Co., freight on brick		35 1	0ct. 1	194	Paid for payroll on building		749 99
May 30	124	Paid S. P. Co., freight on brick		61 1	Oct. 1	195	Paid W. H. Sherwood, material		170 08
May 30	125	Paid S. P. Co., freight on brick		35 1 35 1	Oct. 1 Oct. 1	196	Paid Nichols & Hawkins, material		108 75
May 30 May 30	126 127	Paid S. P. Co., freight on brick Paid S. P. Co., freight on brick		35 I	Oct. 1	197 198	Paid J. F. Newman, material Paid L. M. Coggins, lumber		92 54 64 78
May 30	128	Paid S. P. Co., freight on brick		35 1	0ct. 1	199	Paid J. T. Fordham, elevator and wheelbarrow		52 15
May 30	129	Paid for payroll on building	<b></b>	23 🕊	0ct. 1_	200	Paid Z. W. Burnham, brick		1,723 48
May 30	130	Paid for payroll on building		89 💐	Oct. 1	201	Paid W. H. McKay, lumber		90 23
May 30	131	Paid for payroll on building		51 Q 35 <b>5</b>	0ct. 1	202	Paid W. H. McKay, lumber		79 56
May 30	132	Paid for payroll on building		30 <b>-</b> 65 1	Oct. 1.	203	Paid W. H. McKay, lumber		76 39
May 30 May 30	133 134	Paid for payroll on building Paid for payroll on building		16	Oct	204 205	Paid S. P. Co., freight on lime Paid S. P. Co., freight on cement		43 00 66 65
May 30	135	Paid for payroll on building	E	50 🖫	0ct. 1	203 206	Paid S. P. Co., freight on lime		43 00
May 30	136	Paid for payroll on building		50:	Vet. 1.	207	Paid W. J. O'Brien, lime		100 00
May 30	137	Paid for payroll on building		20 0	Oct. 1	208	Paid W. J. O'Brien, lime		100 00
May 30	138	Paid for payroll on building		12 <b>.</b> 8 <b>.</b>	0ct, 1	209	Paid Davis & Cowell, cement Paid petty cash bills, sundries		210 00
May 30	139	Paid A. McFayden, gravel Paid E. L. Ransome, artificial stone work		998	Oct.	210	Paid petty cash bills, sundries Paid Hubbard & Earll, material		21 12 75 03
May 30 May 30	140 141	Paid Sierra Lumber Co. lumber		228 220 5	Oct. 1	211 212	Paid Sierra Lumber Co., lumber		75 93 588 64
May 30	142	Paid Sierra Lumber Co., lumber Paid Hibbard & Sommer, stationery			0et. 29	213	Paid E. A. Warren, sand		213 61
May 50	145	Paid W. J. O'Brien, lime		100.	Xct. 29	214	Paid E. A. Warren, sand Paid W. J. O'Connor, sand		18 32
May 30	144	Paid W. J. O'Brien, lime		100	Oct 29-	215	Paid Z. W. Burnham, brick		1,947 52
May 30	145	Paid Weed & Barnard, conveyance to examine	ļ	12	Oct 20	216	Paid Z. W. Burnham, brick Paid W. J. O'Brien, lime Paid Hubbard & Earll, material		100 00
May 30	146	lumber Paid S. P. Co., freight on lime		48: 44:	0t. 1 0t. 1 0t. 29 0t. 29 0t. 29 0t. 29 0t. 29 0t. 29	217 218	Paid Hubbard & Earll, material Paid Sierra Lumber Co., lumber		$87 82 \\ 247 72$
May 30	147	Paid S. P. Co., freight on lime.		44	Vct. 29	219	Paid Hubbell & Boothe, material		53 60
2.200	1 220			-	M.V.	210	, a will address to booking discontant annual and annual and and annual and annual and annual annual and annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual annual an		00 00

#### FINANCIAL REPORT-Continued.

REPORT OF TRUSTEES OF STATE NORMAL SCHOOLS.

		FINANCIAL REPORT—Continued.		
Date of Auditing.	No. of Voucher	•	Dr.	Cr.
Oct. 29	220	Paid Davis & Cowell cement		<b>2</b> 91A
Oct. 29.	221	Paid Davis & Cowell, cement		\$210 66
Oct. 29	222	Paid S. P. Co., freight on lime		43
Oct. 29	223	Paid petty cash bills, sundries		20
Oct. 29	224	Paid for payroll on building		847
Oct. 29	225	Paid for payroll on building		814
Oct. 29	226	Paid petty cash bills, sundries Paid for payroll on building Paid for payroll on building Paid for payroll on building Paid for payroll on building		821
Oct. 29	227	Paid for payroll on building Paid for payroll on building Paid for payroll on building Paid for payroll on building Paid John R. Gleeson, services as Secretary Paid petty cash bills, sundries Paid S. P. Co., freight on flooring Paid S. P. Co., freight on flooring Paid S. P. Co., freight on flooring Paid S. P. Co., freight on shingles Paid S. P. Co., freight on cement Paid S. P. Co., freight on lumber Paid S. P. Co., freight on building		361
Oct. 29 Oct. 29	228 229	Paid for payroll on building		698
Nov. 27	230	Paid patty and bills sundries		150
Nov. 27	231	Paid S P Co freight on flooring		10
Nov. 27	232	Paid S. P. Co., freight on flooring		46 49
Nov. 27	233	Paid S. P. Co., freight on flooring		50
Nov. 27	234	Paid S. P. Co., freight on shingles		18
Nov. 27	235	Paid S. P. Co., freight on cement.		- 66
Nov. 27	236	Paid S. P. Co., freight on lumber		47
Nov. 27	237	Paid for payroll on building		
Nov. 27	238	Paid for payroll on building Paid for payroll on building		917
Nov. 27	239	Paid for payroll on building.		995
Nov. 27	240	Paid Davis & Cowell, cement		210
Nov. 27 Nov. 27	241 242	Paid W. J. O'Brien, lime		100
Nov. 27	243	Paid I. Farm material		27
Dec. 28	244	Paid Chas F Doe & Co lumber		1,527
Dec. 28	245	Paid Sierra Lumber Co. lumber		440
Dec. 28	246	Paid Hubbard & Earll, material		302
Dec. 28	247	Paid Hubbell & Boothe, material		227
Dec. 28	248	Paid J. F. Newman, material		135
Dec. 28	249	Paid Nichols & Hawkins, material	}	143
Dec. 28	250	Paid Davis & Coweit, cement. Paid W. J. O'Brien, lime. Paid E. A. Warren, sand. Paid L. Fargo, material Paid Chas. F. Doe & Co., lumber. Paid Sierra Lumber Co., lumber. Paid Hubbard & Earll, material. Paid Hubbard & Earll, material. Paid Hubbell & Boothe, material. Paid Nichols & Hawkins, material. Paid Nichols & Hawkins, material. Paid W. J. Pulliam, blacksmithing. Paid W. J. Pulliam, blacksmithing. Paid Chico Water Co., pipe. Paid Chico Water Co., water. Paid Chico Water Co., water. Paid L. W. Burnham, brick. Paid Huntington, Hopkins & Co., shingles Paid S. F. Lumber Co., laths Paid S. F. Lumber Co., laths Paid S. F. Lumber Co., laths Paid S. F. Lumber Co., laths Paid W. H. McKay, lumber. Paid Huntington, Hopkins & Co., roof felt Paid L. S. Camper, iron work. Paid L. S. Camper, iron work		84
Dec. 28	251	Paid M. L. Mery, iron work		79
Dec. 28	252	Paid Chico Water Co., pipe		122
Dec. 28	253	Paid Unico Water Co., Water		175 892
Dec. 28 Dec. 28	254 255	Paid Huntington Honking & Co. material		81
Dec. 28	256	Paid Huntington, Hopking & Co., material		455
Dec. 28	257	Paid S. F. Lumber Co., laths		109
Dec. 28	258	Paid S. F. Lumber Co., flooring		1,282
Dec. 28	259	Paid S. F. Lumber Co., laths		51
Dec. 28	260	Paid W. H. McKay, lumber		172
Dec. 28	261	Paid J. H. Allen, iron work		19
Dec. 28	262	Paid Huntington, Hopkins & Co., roof felt		100
Dec. 28	263	Paid L. S. Camper, iron work Paid Felter & Williams, lime		45 50
Dec. 28	264	Paid W. J. O'Brien, plaster of Paris Paid for payroll on building Paid for payroll on building Paid S. P. Co., freight on lumber Paid S. P. Co., freight on cement Paid S. P. Co., freight on felt Paid S. P. Co., freight on felt Paid S. P. Co., freight on lumber		14
Dec. 28 Dec. 28	265 266	Paid for payroll on building		558
Dec. 28	266 267	Paid for payroll on building		558 568
Dec. 28	268	Paid S. P. Co., freight on lumber		47
Dec. 28	269	Paid S. P. Co., freight on cement		66
Dec. 28	270	Paid S. P. Co., freight on lumber		71
Dec. 28	271	Paid S. P. Co., freight on felt		20
Dec. 28	272	Paid S. P. Co., freight on laths		25
1889.				_
Mar. 29	273	Paid J. R. Gleeson, postage		] 3
†		Traveling expenses of Board of Trustees locat-	-	1
i		ing Normal School for Northern California:		Ι.
[		Washington Bartlett \$39 50		·
		Ira G. Hoitt		! :
- 1		James Denman 94 60		
1		L. Archer 94 10		
1		T. Ellard Beans		500
		Ralph Lowe 94 10		1
ļ		Totals	6k0 000 00	\$50,000
		Totals	\$50,000 00	ייייניטנק
			l	1

Submitted by Executive Committee.

L. ARCHER. RALPH LOW

## PRINCIPAL'S REPORT.

To the Board of Trustees of the State Normal School at San José:

GENTLEMEN: I have the honor of submitting the following report of the school in San José under your charge, for the school year ending June 30, 1890:

On the thirty-first of January diplomas were granted to sixty-four

As no special time was taken to prepare for graduating exercises, the regular work of the school was continued up to the last day of the term.

The diplomas were conferred in a simple and business-like way that seemed to meet the approval of parents, teachers, and pupils.

We propose to graduate the June class in the same dignified and inexpensive manner.

We present now for diplomas a class of ninety-three. This is the largest class ever graduated from this school. The prominent features of this commencement will be class teaching in the Training Department by the Senior students, and an exhibit of work done in the various departments of Manual Training.

### STATISTICS.

Two hundred and eighty-three applicants for admission to the school have been examined during the year. Of these, 81 failed to reach the required standard for admission, and 202 entered the school. One was admitted to the Senior Class, 6 to the Middle A, 4 to the Middle B, 9 to the Junior A, and 182 to the Junior B. We have admitted 62 pupils on Grammar School diplomas, 11 on High School diplomas, and 14 on teachers' certificates.

For the year, the enrollment has been, in the various classes: Senior, 192; Middle, 157; Junior, 243; Training Department, 263. The total enrollment in all classes, 855; in the Normal classes, 592; average for the year in Normal classes, 492. During the year there have been representatives in the school from forty-four counties in the State, distributed as follows:

County Representation, 1889-90.

Alameda	33	Mendocino	9
Alpine	1	Merced	5
Amador	. 5	Monterey	11
Butte	ã	Napa	
Butte	Ĭ	Nevada	-5
Calaveras	18	Nevada Placer	5
Contra Costa	TÕ		2ň
		San Francisco	83
Humboldt Kern Lake	. 4	San Joaquin	
Well-	· ;	San Luis Obispo	9
Lake		San Mateo	ă
Lassen	. =	Santa Clara	228
		Santa Cruz	16
Los Angeles		Danie Olas	_
Marin Marinosa			

Shasta	3	Tehama
Sierra	5	Trinity
Siskiyou	5	Tulare
Solano	12	Tuolumne
		Ventura
Stanislaus	4	Yolo
Sutter	5	Vuha

Counties not represented: Colusa, Del Norte, Inyo, Modoc, Mono, Orange, Plumas, San Bernardino, Santa Barbara.

In addition to those enrolled from California, we have from Idaho 2; Kansas, 1; Michigan, 2; Minnesota, 1; Missouri, 1; Montana, 1; Nebraska, 1; Nevada, 6; Nova Scotia, 1; Oregon, 3; Washington, 7; Wisconsin, 2.

#### MUSEUM.

During the year, exchanges with various scientists have added much valuable material to the collections. The thanks of the State Normal School are due for donations from friends as follows: Hon. Leland Stanford; Rev. M. R. Gains; A. Tibbel; Dr. Putzeys, Belgium; M. Artun Bofill, Spain; Flood Brothers, Massachusetts; C. H. Allen; J. R. Bush Wm. Bankhead; W. E. Curtis; M. J. Dennis; S. B. Elliott; K. McGeorge H. M. Kennedy; Mrs. V. Gallut; Mrs. M. E. Nichols; Mr. Mitchell.

#### GENERAL.

The young men in our school have organized a cadet company for exercise and discipline. On application by your Executive Committee the Adjutant-General of this State has furnished us with guns and other necessary equipments. I recommend that a suitable place is

prepared for storing these arms.

We are now using every part of the building, from basement to attick We have been compelled to use the reception-room for library purposes and still the library-room is much too small. Some of the Training Department classes are using rooms in the basement that cannot be heated sufficiently. The basement is entirely unsuited for class purposes. It was originally intended for store-rooms, and might be converted into a gymnasium if we had other space for the Training Department. In view of the crowded condition of our school, I earnestly request you to ask the Legislature for an appropriation of \$60,000 with which to erect a building especially adapted to the use of a modern training school.

It is unnecessary to allude here to the special work of the school during the past year, as a full account of it appears in the catalogue

During the year, an hour at the close of school work on Thursday, has been used for popular lectures. Many persons have discoursed upon a great variety of subjects. These talks have been very interesting any profitable to us, and we sincerely thank these friends for their work.

With thanks to you for your cordial support and valuable suggestion and to the Faculty for their very earnest and faithful labors, this reposis respectfully submitted.

CHAS. W. CHILDS,

Principal

## FINANCIAL REPORT

Of the State Normal School, San José, for the Forty-first Fiscal Year, ending June 30, 1890.

### GENERAL FUND.

	No. of			
Date of Auditing.	No. of Voucher		Þr.	Cr.
1889.		Amount of appropriation forty-first fiscal year. Balance in Tuition Fund from fortieth fiscal	\$39,000 00	
		Balance in Tuition Fund from fortieth fiscal		
	}	year, as per last report	263 13	
		Tuition collected for forty-first fiscal year Amount received from sale of engine Receipts from library, workshop, piano rent, etc. Paid for salaries for July, 1889 Paid L. Ambert, cleaning and laying carpet Paid C. H. Allen, wood for engine Paid Frank W. McEwen, wood for engine Paid E. W. Main & Co., wood for engine Paid for salaries for August, 1889 Paid G. F. Willey, slating boards Paid for salaries for September, 1889 Paid Sterling Furniture Co., desks Paid L. Lion, carpet Paid T. Soper, carpenter work Paid C. H. Allen, workbench, lumber, etc. Paid Bancroft Company, maps	4,160 00	
		Amount received from sale of engine	135 00	
- 1 04		Receipts from fibrary, workshop, plane rent, etc.	172 60	#0 704 EE
July 31	A. 1	Poid I. Ambert cleaning and leving carnet		\$2,764 55 24 11
July 31	A. 1 T. 1	Paid C. H. Allan wood for angine		93 50
July 31 July 31	T. 1 T. 2	Paid Frank W. McEwen, wood for engine		44 80
July 31		Paid E. W. Main & Co., wood for engine		40 00
Aug. 29	[	Paid for salaries for August, 1889		2,764 55
Aug. 29	A. 2	Paid E. B. Lewis, office supplies		9 00
Aug. 29 Sept. 27	A. 3	Paid C. F. Willey, slating boards		20 00
Sept. 27		Paid for salaries for September, 1889		2,972 05
Sept. 27	A. 4	Paid Sterling Furniture Co., desks		90 75
Sept. 27	A. 5	Paid L. Lion, carpet		115 35
Sept. 27	A. 6 A. 7	Paid C. H. Allan workbanch lumbar ata		21 50
Sept. 27 Sept. 27	A. 7 A. 8	Paid Bancroft Company, maps		26 50 32 50
Sept. 27	A. 9	Paid Frank E. Smith clocks		23 00
Sept. 27	A. 10	Paid H. W. Buchman & Co., supples		26 88
Sept. 27	A. 11	Paid McNeil Brothers, postals, printing, etc		12 10
Sept. 27	A. 12	Paid L. P. Hansen, Janitor supplies		9 45
Sept. 27	A. 13 A. 14	Paid sundry papers, advertising		9 60
Sept. 27	A. 14	Paid Pieper & Watson, repairing batteries		2 50
sept. 27	T. 4	Paid C. H. Allen, workbench, lumber, etc.  Paid Bancroft Company, maps.  Paid H. W. Buchman & Co., supples.  Paid McNeil Brothers, postals, printing, etc.  Paid L. P. Hansen, Janitor supplies  Paid sundry papers, advertising.  Paid Pieper & Watson, repairing batteries.  Paid Daunes & Van Doren, coal for engine  Paid Daunes & Van Doren, coal for engine  Paid Bances & Van Doren, coal  Paid S. C. V. M. & L. Co., lumber  Paid E. B. Lewis, stationery  Paid Milton Campbell, plumbing  Paid J. Boschken, tools and hardware  Paid Sterling Furniture Co., desk  Paid J. P. Naas, carpenter work  Paid F. Kuchenbeiser & Son, castings, etc.  Paid J. Callisch, drugs  Paid Oborn & Alexander, tools  Paid Prang Ed. Co., models  Paid H. W. Buchman & Co., supplies  Paid Mrs. L. P. Wilson, supplies for Training  Department  Paid Wilcox & Scott, ash bin		109 50
Sept. 27	T. 5	Paid Daunes & Van Doren, coal for engine		24 50
Oct. 31.		Paid for salaries for October, 1889		2,972 05
Oct. 31.	A. 15 A. 16	Paid S C V M & L Co lumber		668 02 133 55
Oct. 31	A. 17	Paid E R Lewis stationery		117 87
Oct. 31	A. 18	Paid Milton Campbell, plumbing		134 13
Oct. 31	A. 19	Paid J. Boschken, tools and hardware		94 95
oct, SI	A. 20	Paid Sterling Furniture Co., desk		15 00
Oct 31	A. 21	Paid J. P. Naas, carpenter work		24 00
yct. 31	A. 22	Paid F. Kuchenbeiser & Son, castings, etc.		10 45
Oct. 31.	A. 23	Paid L. Callisch, drugs		4,00
V-1. OT	A. 24	Paid Osborn & Alexander, tools		85 65
A	A. 25 A. 26	Paid Prang Ed. Co., models		25 50
Oct. 31.	A. 20	Paid A Staiger Sons clay		17 54 15 00
Oct. 31	A. 27 A. 28	Paid Mrs. L. P. Wilson, supplies for Training		10 00
	11.20	Department		14 30
Oct. 31	A. 29	Paid Wilcox & Scott, ash bin		33 60
Oct. 31	A. 30	Department Paid Wilcox & Scott, ash bin Paid C. F. Willey, painting and slating Paid Davis & Co., wheelbarrows, hardware, and	\	23 75
Oct. 31	T. 6	Paid Davis & Co., wheelbarrows, hardware, and		
Oct. 31	1	00013		24 50
	T. 7	Paid F. Kuchenbeiser & Son, repairing fences,		FA ==
Oct. 31.	an o	Doid Amada Costna nama aying troop	[	50 75
	T. 8	Paid Milton Compbell plumbing		42 50 15 45
Oct. 31	T. 9 T. 10	Paid I Goetz sawing wood		6 80
	T. 11	Paid J. A. Belloli, barley		8 85
V., 31"	T 12	Paid J. Boschken tools		5 50
Nov. 27 Nov. 27 Nov. 27	T. 13	Paid F. Kuchenbeiser & Son, repairing fences, etc.  Paid Amado Castro, removing trees. Paid Milton Campbell, plumbing. Paid J. Goetz, sawing wood. Paid J. A. Belloli, barley. Paid J. Boschken, tools. Paid J. J. Zingg, sharpening mower. Paid for salaries for November, 1889. Paid J. H. Elwood, music charts. Paid Piper & Watson, repairing electric apparatus		1 00
Nov. 27.		Paid for salaries for November, 1889	.	2,972 05
Nov 27-	A. 31	Paid J. H. Elwood, music charts	-	26 00
Z1	A. 32	Paid Piper & Watson, repairing electric appa-		
Nos		Paid A Minut & Co. manilla manus	-	12 00
Nov. 27 Nov. 27	A. 33 T. 14	Paid C. H. Allen wood for engine		5 05
NOV 27	T. 15	Paid D White & Co. winding angine nines ato		45 50 23 45
Nov. 27 Nov. 27 Nov. 27	T. 16	ratus Paid A. Friant & Co., manilla paper Paid C. H. Allen, wood for engine Paid D. White & Co., winding engine pipes, etc. Paid Hawley Bros. Hardware Co., repairing mower		20 40
	1	mower	.	26 75
*.	•		<b></b>	

## FINANCIAL REPORT-Continued.

FINANCIAL REPORT—Continued.							
Date o Auditin	f No. o Vouche	r	Dr.	Cr,			
Nov. 27	T. 17	Paid Paul Petterson, graveling	l `	\$7			
Nov. 27	T. 18	Paid C. W. Childs, hav		9			
Nov. 27	'  T. 19	Paid John Stock Sons, supplies		14			
Dec. 20		Paid for salaries for December, 1889		2,972			
Dec. 20	)	Paid C. W. Childs, hay Paid John Stock Sons, supplies Paid for salaries for December, 1889 Paid Ruth Royce, services as Secretary, six		. == :			
Dec. 20	A. 34	months Paid Sterling Furniture Co., desks		75 ( 29 )			
Dec. 20				9			
Dec. 20	A. 36	Paid A. Friant & Co., manilla paper		10 i			
Dec. 20	A. 37	Paid S. J. Furniture Mfg. Co., upholstering		3 (			
Dec. 20 Dec. 20		Paid C. P. Main & Co., Wood		6 ( 50 (			
Dec. 20		Paid A. Friant & Co., meight on deskar Paid S. J. Furniture Mfg. Co., upholstering — Paid C. P. Main & Co., wood — Paid Ruth Royce, Sec., postage, express, etc.— Paid Mrs. A. E. Bush, Curator, museum ex-		00 (			
		penses		46			
Dec. 20	A. 41	Paid Milton Bradley & Co., supplies		3 (			
Dec. 20 Dec. 20		Paid Mils, A. E. Bush, Curator, intestill expenses Paid Milton Bradley & Co., supplies Paid A. H. Randall, apparatus Paid L. Callisch, chemicals Paid sundry persons, hauling gravel Paid M. Guiltenan, services as watchman		8 4			
Dec. 20	T. 20	Paid sundry persons, hauling gravel		90 /			
Dec. 20		Paid M. Guiltenan, services as watchman		8			
Dec. 20	T. 22	Paid Paul Petterson, hauling gravel		10			
Dec. 20 Dec. 20	T. 23 T. 24	Paid E. P. Mann & Co., wood for engine		8 10 16 (13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15			
Dec. 20 Dec. 20		Paid J. P. Jarman, painting signs		63			
Dec. 20		Paid Paul Petterson, hauling gravel Paid E. P. Mann & Co., wood for engine Paid J. P. Jarman, painting signs Paid J. A. Belloli, supplies Paid M. W. Lipe, sawing wood		23			
1890.		1.,		,			
	.	Doid for relation for Teners 1900	1	0.079			
Jan. 30 Jan. 30		Paid for salaries for January, 1890		2,972 271 96			
Jan. 30		Paid S. C. V. M. & L. Co., lumber		96			
Jan. 30	A. 46	Paid S. C. V. M. & L. Co., lumber Paid Milton Campbell, repairs to furnace, etc.		156			
Jan. 30		Paid Chris. Hirth, stoves and fittings		87 15			
Jan. 30		Paid John Stock Sons, stove, etc.		36			
Jan. 30 Jan. 30		Paid Chris, Hirth, stoves and fittings Paid John Stock Sons, stove, etc. Paid S. J. Gas Co., gas, six months Paid Sunset Telephone Co., box rent, six months		15			
Jan. 30		Paid W. F. Naas, carpenter work  Paid Ralph H. Hoitt, filling diplomas  Paid Wallace Sturgess, brooms  Paid Calice & Hutchison, Janitor supplies  Paid George B. McKee & Co., setting glass, and		27			
Jan. 30	A. 52	Paid Ralph H. Hoitt, filling diplomas		16			
Jan. 30		Paid Wallace Sturgess, brooms		3			
Jan. 30 Jan. 30		Paid Cance & Hutchison, Janitor supplies		"			
Jan. 00	A. 00	supplies		22 215			
Jan. 31	T. 27	supplies Paid payroll on grounds, January, 1890 Paid Amado Castro, cutting wood Paid John Samuelson, gravel		215			
Jan. 31	T. 28	Paid Amado Castro, cutting wood		60			
Jan. 31		Paid John Samuelson, gravel		30 6			
Jan. 31 Jan. 31	T. 30 L. T. 31			9			
Jan. 31	T. 32	Paid F. Kuchenbeiser & Son. blacksmithing		4			
Jan. 3	1 T. 38	Paid David Walsh, blacksmithing.		2			
Feb. 2'	7	Paid Milton Campbell, plumbing Paid F. Kuchenbeiser & Son, blacksmithing Paid David Walsh, blacksmithing Paid for salaries for February, 1890 Paid & C. V. M. & J. C. Strands	.	2,972 162 5			
Feb. 27		Paid Frank E. Smith lenses and renairs		5			
Feb. 27 Feb. 27	7. A. 58	Paid A. R. Denike, tuning piano		2			
Feb. 2	7 T. 3	Paid payroll on grounds, February, 1890		178			
Feb. 2	7  T. 34	Paid Amado Castro, cutting wood		43			
Feb. 2	7 T. 30	Paid J. Samuelson, gravel		30			
Feb. 2' Feb. 2'	7. T. 3	Paid M. M. Harris services as musician		· 5			
Mar. 2	7	Paid for salaries for March, 1890		3,072			
Mar. 2	7_ A. 5	Paid Farmers Union, supplies		. 21 19			
Mar. 2		Paid S. C. V. M. & L. Co., lumber and mill work					
Mar. 2' Mar. 2'							
Mar. 2		Paid payroll on grounds. March. 1890					
Mar. 2		Paid Farmers Union, supplies		43			
Mar. 2	7 T. 41	.   Paid Morgan Miles, seeds		.1 74			
Mar. 2		Paid Fikes & Abels, hay	-  <del></del>	3,022			
April 2		Paid Fikes & Abels, hay Paid for salaries for April, 1890 Paid Daunes & Van Doren, coal	-	134			
April 2 April 2		Paid S. C. V. M. & L. Co., lumber, etc.		50			
April 2			3	10			
April 2		Paid A. Friant & Co., paper	-  <b></b> -	.  .			

## FINANCIAL REPORT—Continued.

Date of	No. of	/	Dr.	<i>(</i> '=
Anditing.	Voucher		Dr.	Ст.
April 25	T. 43	Paid payroll on grounds, April, 1890.		\$194 00
Anril 25	T. 44	Paid McNeil Bros spelling blanks	I.	52 50
April 25	T. 45	Paid J. A. Belloli, barley, etc. Paid Look & Taylor, hay Paid sundry papers, advertising Paid for salaries for May, 1890. Paid Mrs. A. E. Bush, Curator, museum expenses Paid Storling Furniture Co. deaks		17 90
Anril 20	T. 46	Paid Look & Taylor, hay		8 58
Antil 20	T. 47	Paid sundry papers, advertising		6 00
May 29		Paid for salaries for May, 1890		3,022 88
Ma∀ 29	A. 67	Paid Mrs. A. E. Bush, Curator, museum expenses		48 00
Mα∀ 29	A. 68	Paid Sterling Furniture Co., desks Paid Mrs. L. P. Wilson, supplies, Training Dept.		41 65
May 29	A. 69	Paid Mrs. L. P. Wilson, supplies, Training Dept.		34 90
Ma⊽ 29	A. 70	Paid E. P. Main, wood Paid L. P. Hansen, supplies Paid Pieper & Watson, battery Paid A. R. Denike, tuning and repairs		6 00
May 29	A. 71	Paid L. P. Hansen, supplies		4 80
May 29	A. 72	Paid Pieper & Watson, battery		12 50
May 29	A. 73	Paid A. R. Denike, tuning and repairs		4 00
May 29	A. 74	Paid McNell Bros., printing		4 50
May 29	A. 75 T. 48	Paid C. W. Childs, Ireight		6 35
May 29		Paid Farmore Union have and oil		287 70
May 29	T. 49 T. 50	Paid McNeil Bros., printing Paid C. W. Childs, freight Paid payroll on grounds, May, 1890 Paid Farmers Union, hose and oil		236 35
May 29	T. 51	Paid E. P. Main, wood Paid David Walsh, blacksmithing		68 00
May 29	T. 52	Poid C W Childs gunder avenues		5 00 7 75
May 29	T. 53	Paid C. W. Childs, sundry expenses		10 00
May 29 June 19	1.00	Paid James Denman, traveling expenses Paid for salaries for June, 1890		2,972 88
June 19	A. 76	Paid McNail Bros hook covers		4 50
June 19	A. 77	Paid C. W. Childs, express and telegrams		2 06
June 19	T. 54	Paid H R Worcester solary June 1800		50 00
June 19	T. 55	Paid C. W. Childs, express and telegrams Paid H. B. Worcester, salary, June, 1890 Paid Ruth Royce, services as Sec'y, six months		75 00
June 19	T. 56			50.00
June 19	T. 57	Paid C. W. Childs, expenses for lecture Paid A. H. Randall, supplies Paid Cornelia Walker, material for classes Paid Paid Paid Paid Paid Paid Paid Paid		10 18
June 19	T. 58	Paid C. W. Childs, expenses for lecture		9 00
June 19	T. 59	Paid A. H. Randall, supplies		3 13
June 19		Paid Cornelia Walker, material for classes		2 25
June 19		Paid Ruth Royce, Secretary, postage, express,		_ <b>_</b> _
		etc., six months	l	62 00
June 19	T. 62	Paid Geo. B. McKee & Co., glazing, etc		14 30
June 19	Т. 63	Paid National Bank D. O. Mills & Co., trans-		
_		mitting warrants	l	10 20
June 19		Paid S. E. Moreland, kalsomining, etc.		16 00
June 19	T. 65	Paid Milton Campbell, plumbing		92 45
June 19	T. 66	Paid J. Boschken, hardware and tools		79 94
June 19	T. 67	Paid Milton Campbell, plumbing Paid J. Boschken, hardware and tools Paid S. C. V. M. & L. Co., lumber Paid F. Kuchenbeiser & Son, iron work		77 19
June 19		Paid F. Kuchenbeiser & Son, iron work		32 00
June 19		Paid payroll on grounds; June, 1890	J	236 00
June 19.	T. 70 T. 71	Paid payroll on grounds; June, 1890 Paid S. C. V. M. & L. Co., wood Paid C. Cappes, seeds Paid J. A. Belloli, supplies Paid G. Douglas, cutting hay		116 00
June 19	T. 71	Paid U. Uappes, seeds		31 20
June 19.	T. 72	raid J. A. Belloll, supplies		10 23
June 19 June 19	T. 73	raid G. Douglas, cutting nay		7 00
July 23	T. 74	Paid II Cas Company and six marths		5 90
July 23	T. 75 T. 76	Paid Palph Hoitt lettering diplomas		64 05 23 25
July 23	T. 77	Paid Messing & Son, harness Paid S. J. Gas Company, gas, six months Paid Ralph Hoitt, lettering diplomas Paid Blake, Moffitt & Towne, envelopes		25 25 5 85
, 20.	1. 11	Take Diake, Momit & Towne, envelopes		9 89
,		Total amount expended	1	\$42 612 20
7	ì	Release in Tuition Fund at close of forty-first		φ±2,012 05
	1	Total amount expended	1	1.118 84
		TOWNS J VMA TORONOMETERS TO THE TOWNS TO THE TOWNS TO THE TOWNS TO THE TOWNS TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN T		
•	1 .	Totals	\$43,730 73	\$43,730 73
·	{		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	',

## SUMMARY OF ABOVE REPORT.

N.	Dr.	Cr.
Total income for forty-first fiscal year	\$43,730 73	
Paid for salaries \$35.654 50	3	
Paid for stationery		1 ,
Paid for furniture and apparatus		
Paid for fuel and gas		1
Paid for general supplies		1
Paid for repairs and improvements 560 6		1
Paid for miscellaneous expenses 336 4	L	1
Total armanded for support of school		\$39,652 4
Total expended for support of school	:-	.   \$00,002 4
Paid for fuel for engine 670 5	(	
Paid for general supplies for grounds 432 4		
Paid for repairs to engine, tools, fence, etc.		
Paid for plumbing		1 .
Paid for seeds 48 9		
1 414 101 50045	_	
Total expended for care and improvement of grounds		2,959 %
Balance in Tuition Fund		1,118 %
		-
Totals	\$43,730 73	\$43,730 7

## SPECIAL APPROPRIATIONS.

## APPROPRIATION FOR LIBRARY.

Date of Auditing.	No. of Voucher		Dr.	Cr.
1889.		Amount of appropriation	\$1,000 00	
July 31	1	Paid T. Soper, labor and material for cases		\$152 6
July 31	2	Paid L. Lion, carpet for library		38 45
July 31	3	Paid Geo. B. McKee & Co., papering and mold-		
•		ing		12 8
July 31		Paid sundry persons, labor in library		22 40
Sept. 27	5	Paid F. A. Taylor, subscription to periodicals	•	104 10
Sept. 27	6	Paid McNeil Bros., bookbinding and paper		136 7
Sept. 27	7	Paid McNeil Bros., bookbinding and paper Paid W. B. Dunlap, set "History of America". Paid J. A. Rankin, agent, "Book of Animals".		56 O
Sept. 27	8	Paid J. A. Rankin, agent, "Book of Animals"		3 50
Oct. 31	9	Paid John D. Alden, books		34 P
Oct. 31	1 10	Paid E. B. Lewis, Dooks		10 10
Oct. 31	11	Paid R. Royce, "Picturesque America"		20 00
Oct. 31	12	Paid sundry papers, subscriptions Paid Mrs. A. E. Bush, books		12 5
Nov. 27	13	Paid Mrs. A. E. Bush, books		123 💖
Nov. 27	14	Paid Mrs. E. D. Eddy, agent, "Glimpses of		3 00
Nov. 27	15	Paid McNeil Bros., covers for binding		440
Dec. 20	16	Paid A. L. Bancroft & Co., set "American		į.
		Literature"		45 0
1890.	Į.	***************************************		
Jan. 30	17	Paid W. B. Dunlap, books		103
Feb. 27	18	Paid McNeil Bros., bookbinding	_	12 0
Mar. 27	l ĩặ	Paid McNeil Bros., bookbinding Paid F. A. Taylor, subscription to periodicals		31 🎘
May 29	20	Paid History Co., 4 volumes Bancroft's History		22 (I) 3 (I)
May 29	21	Paid E. B. Lewis, books		
June 19.	22	Paid W. B. Dunlap, books		41 38
		Totals	\$1,000 00	\$1,000 0
			1=7.00	

## APPROPRIATION FOR LAYING SIDEWALK.

Date of Auditing.	No. of Voucher	,	Dr.	Cr.
1889. Sept. 16	1	Amount of appropriation Paid G. W. Hanson, sidewalk, on account	\$6,400 00	<b>\$</b> 3, <b>1</b> 40
Sept. 16 Oct. 18	2	Paid G. W. Hanson, sidewalk, in full Balance not drawn from State Treasury		3,254 5
		Totals	\$6,400 00	\$6,400

Date of Auditing.	No. of Voucher		Dr.	Cr.
1889. Aug. 30		Amount of appropriation. Paid J. P. Jarman and S. Moreland, painting	\$750 00	
		roof		<b>\$</b> 750 <b>00</b>

## APPROPRIATION FOR CARE OF GROUNDS.

Date of Auditing.	No. of Voucher	·	Dr.	Cr.
1889. July 31 Aug. 29 Sept. 27 Oct. 31 Nov. 27 Dec. 20		Amount of appropriation Paid payroll on grounds, July, 1889 Paid payroll on grounds, August, 1889 Paid payroll on grounds, September, 1889 Paid payroll on grounds, October, 1889 Paid payroll on grounds, November, 1889 Paid payroll on grounds, December, 1889	\$1,500 00	\$282 00 304 65 298 75 250 40 216 70 147 50
		Totals	\$1,500 00	\$1,500 00

STATE NORMAL SCHOOL AT LOS ANGELES.

# REPORT OF TRUSTEES OF STATE NORMAL SCHOOL, LOS ANGELES.

To his Excellency R. W. WATERMAN:

Sir.: We herewith submit, for the State Normal School at Los Angeles under our charge, the financial report of the forty-first fiscal year, ending June 30, 1890, together with the report of the Principal of the school for the same year, as required by law.

In the gymnasium building account, the last item, Voucher No. 469, is drawn in the forty-second fiscal year, but is inserted here to show the complete disposal of the fund appropriated by the last Legislature for this purpose.

You will see, by glancing over the record, that we have kept carefully

within the appropriations placed at our disposal.

Very respectfully submitted.

STEPHEN M. WHITE, President of Trustees.

IRA MORE, Secretary.

## FINANCIAL REPORT.

California State Normal School at Los Angeles, Forty-first Fiscal Year, ending June 30, 1891

## CURRENT EXPENSE FUND.

CORRENT EXTENSE FORD.				
Date of Auditing.	No. of Voucher		Dr.	Cr.
1889.	Ì			
July 1	<u> </u>	To appropriation for forty-first fiscal year	\$21,000 00	
July 31	280	By salaries of employes for July, 1889		\$1,410 0
July 31	281	By Richardson & Son, for paints and varnish		42 00
July 31	282	By Sunset Telephone Co., for rent and service		6 25
July 31	283	By S. M. Perry, for plumbing and repairs		51 9
July 31 July 31	284 285	By Harner Reynolds & Co. for coment and		20 0
July JI	200	hardware		26 0
Aug. 31	288	By salaries of employés for August, 1889		1,410 0
Aug. 31	289	By W. C. Furrey, for hardware and labor		12 05
Aug. 31	290	By L. A. City Water Co., supply for July, 1889.		27 00
Aug. 31	291	By L. A. Gas Co., supply for July, 1889.		3 00
Sept. 30	294 295	By salaries of employes for September, 1889		1,470 00 213 18
Sept. 30 Sept. 30	296	Ry I. A Gag Co. gupply for August 1889		1 50
Sept. 30	297	By L. A. City Water Co., supply for August		27 00
Oct. 31	299	By salaries for October, 1889		1,470 0
Oct. 31	300	By B. F. Coulter & Co., for crash toweling		27 00 1,470 00 13 50 13 22
Oct. 31	301	By G. W. Cooke & Co., for paper and ruling		13 2
Oct. 31	302 303	By A. E. Littlebox for chemicals		3 80 10 55
Oct. 31	303	By E. A. Preuss, for postage stamps By Harper, Reynolds & Co., for cement and hardware By salaries of employés for August, 1889 By W. C. Furrey, for hardware and labor By L. A. City Water Co., supply for July, 1889 By L. A. Gas Co., supply for July, 1889 By Salaries of employés for September, 1889 By S. Cal. Coal and Wood Co., for coal By L. A. Gas Co., supply for August, 1889 By L. A. City Water Co., supply for August, 1889 By B. F. Coulter & Co., for crash toweling By G. W. Cooke & Co., for paper and ruling By Rhodes & Keese, for electric battery repairs. By A. E. Littleboy, for chemicals By W. S. Douglas, for fire extinguishers By Eimer & Abend, for chemical apparatus By L. A. City Water Co., supply for September By L. A. Gas Co., supply for September By Phil. Hirschfeld & Co., for stationery By salaries for November, 1889 By Los Angeles Furniture Co., for carpet By Adolph Ekstein, for chloride of lime By L. A. City Water Co., supply for October By Citizens' Water Co., from July 1 to November I, 1889 By L. A. Gas Co., supply for October, 1889 By L. A. Gas Co., supply for October, 1889		40 0
Oct. 31	305	By Eimer & Abend, for chemical apparatus		132 6
Oct. 31	306	By L. A. City Water Co., supply for September.		9 00
Oct. 31	307	By L. A. Gas Co., supply for September		2 50 70 85
Oct. 31	308	By Phil. Hirschfeld & Co., for stationery		70 8
Nov. 30	311 312	By salaries for November, 1889		1,470 00 73 13
Nov. 30	313	By Adolph Ekstein, for chloride of lime		14 70
Nov. 30	314	By L. A. City Water Co., supply for October.		2 25
Nov. 30	315	By Citizens' Water Co., from July 1 to Novem-		ز. `
		_ ber 1, 1889		3 45
Nov. 30	316	ber 1, 1889  By L. A. Gas Co., supply for October, 1889  By D. C. Roberts, for repairing clocks  By Perry Lumber and Milling Co., for portable		2 20 6 50
Nov. 30 Nov. 30	317 318	By D. C. Roberts, for repairing clocks	- <i></i> -	0 00
NOV. 30	310	blackboard		13 50
Nov. 30:_	319	By W. C. Furrey, for hardware		23 40
Nov. 30	320	By Shaw & Labatt, for carpentry repairs		12 50
Nov. 30 Nov. 30	321	By F. M. Parker, for building storm drain		179 0
Nov. 30	322	By F. M. Parker, for repairing sewers		135 50 1,470 00
Dec. 31 Dec. 31	328 329	By Phil Hirschfold & Co. for stationary		62 13
Dec. 31	330	By Phares Bell for blackhoard renairs		4 00
Dec. 31	331	By Perry Lumber and Milling Co., for portable blackboard  By W. C. Furrey, for hardware.  By Shaw & Labatt, for carpentry repairs.  By F. M. Parker, for building storm drain.  By F. M. Parker, for repairing sewers.  By salaries for December, 1889.  By Phil. Hirschfeld & Co., for stationery.  By Phares Bell, for blackboard repairs.  By L. A. Gas Co., supply for November, 1889.  By L. B. Lawson, for filling diplomas.		3 50
Dec. 31	332	By L. B. Lawson, for filling diplomas		8 00
Dec. 31		By petty cash account for express and drayage.		17 51 10 00
Dec. 31	334	By E. A. Preuss, for postage stamps.		10 50
Dec. 31 Dec. 31	335 338	By L. B. Lawson, for filling diplomas  By petty cash account for express and drayage.  By E. A. Preuss, for postage stamps  By Citizens' Water Co., for November, 1889  By Ira More, for salary as Secretary of Trustees		75 00
	000	Dy 114 11016, for salary as pecietary of frustees		
1890.				14
Jan. 31	339	By salaries for January, 1890		\$1,470 0
Jan. 31	340	By H. Jevne, for sundries		22 W
Jan. 31	341	By L. A. Lighting Co., gas for December, 1889.	[	19 \$
Jan. 31 Jan. 31	342 343	By Richardson & Son for clazing atc		60
Jan. 31.	344	By W. C. Furrey, for hardware		15 🕅
Jan. 31		By Harrison & Dickson, for Janitor supplies		3 50
Feb. 28		By salaries for February, 1890		1,470 0
Feb. 28	356	By Chas. E. Day, for plane cover		3 09
Feb. 28		By F. M. Parker & Co., for plumbing.		44 1
Feb. 28	358	By L. A. Lighting Co., for gas for January		17 %
Feb. 28	359	By salaries for January, 1890 By H. Jevne, for sundries By L. A. Lighting Co., gas for December, 1889 By Citizens' Water Co., for December, 1889 By Richardson & Son, for glazing, etc. By W. C. Furrey, for hardware. By Harrison & Dickson, for Janitor supplies By salaries for February, 1890 By Chas. E. Day, for piane cover. By F. M. Parker & Co., for plumbing. By L. A. Lighting Co., for gas for January By Citizens' Water Co., supply for January		

## FINANCIAL REPORT—Continued.

	FINANCIAL INFORI—CONCINUED.						
·Date of Auditing.	No. of Voucher		Dr.	Cr.			
Mar. 31	368	By salaries for March, 1890  By H. Jevne, for Janitor supplies  By Citizens' Water Co., supply for February		\$1,470	00		
Mar. 31	369	By H. Jevne, for Janitor supplies		17			
Mar. 31.		By Citizens' Water Co., supply for February		17	70		
Mar. 81	371	By L. A. Lighting Co., gas for February		2	25		
Mar. 31	372	By H. W. L. Corran, for one copy City Directory		4	00		
Mar. 31		By Hawley, King & Co., for one plow and extras		14	00		
Mar. 31	374	By Phil. Hirschfeld & Co., for stationery		35			
April 30	383	By L. A. Lighting Co., gas for February By H. W. L. Corran, for one copy City Directory By Hawley, King & Co., for one plow and extras By Phil. Hirschfeld & Co., for stationery By salaries for April, 1890 By Eastern Editorial Bureau, for magazines By David Mulrein, for capant platform		1,470	00		
April 30	384	By Eastern Editorial Bureau, for magazines		6	00		
Antil 30	385	By David Mulrein, for cement platform By L. A. City Water Co., supply for March		58	05		
April 30	386	By L. A. City Water Co., supply for March		4			
Anril 30	387	By Citizens' Water Co., supply for March By Chas. A. Ehrhardt, for extension ladder		10			
Anril 30	. 388	By Chas. A. Ehrhardt, for extension ladder		12			
Anril 30	389	By L. A. Lighting Co., gas for March		2	40		
Anril 30	. 390	By Adolph Ekstein, for laboratory supplies		3	45		
April 30	.  390%	By L. A. Lighting Co., gas for March By Adolph Ekstein, for laboratory supplies By petty cash account for expressage paid		20			
May 31	.  405	By salaries for May, 1890  By Jas. W. Queen, for microscope slides		1,470			
May 31.	. 406	By Jas. W. Queen, for microscope slides		42			
May 31	.\ 407	By L. A. Lighting Co., gas for April By Citizens' Water Co., supply for April By Perry Lumber and Mill Co., for repairs		2	20		
May 31	.   408	By Citizens' Water Co., supply for April		8	90		
May 31	. 409	By Perry Lumber and Mill Co., for repairs		21	70		
May 31	410	By L. A. City Water Co., for supply for April.		13	50		
May 31.	411	By L. A. City Water Co., for supply for April- By LeCount Bros., for parchment. By J. S. Fox, for map stand and rack By E. A. Preuss, for postage stamps. By Home Mutual Insurance Co., premium		5	00		
May 31_		By J. S. Fox, for map stand and rack		6	00		
May 31.		By E. A. Preuss, for postage stamps		10	00		
May 31.		By Home Mutual Insurance Co., premium		150			
June 30_		By Home Mutual Insurance Co., premium By salaries for June, 1890. By Geo. W. Frasher, for hauling By L. A. City Water Co., for May and June, 1890 By W. C. Furrey, for hardware By Phil. Hirschfeld & Co., for stationery. By L. A. Lighting Co., gas for May and June By Geo. H. Williams, for gravel. By Citizens' Water Co., for May and June By Ira More, for salary six months as Sec'y		1,470			
June 30.		By Geo. W. Frasher, for hauling		12	50		
June 30.		By L. A. City Water Co., for May and June, 1890		22	50		
June 30.		By W. C. Furrey, for hardware	{	1 6	15		
June 30.		By Phil. Hirschield & Co., for stationery	}	14	08		
June 30.		By L. A. Lighting Co., gas for May and June		1 0	00		
June 30.		By Geo. H. Williams, for gravel		19	45		
June 30_		By Chizens' water Co., for May and June		10	40		
June 30		By Ira More, for salary six months as Sec'y		10	00 50		
June 30.		By John S. Cruise, for cleaning and varnishing. By Jos. Gartreich, for cleaning and varnishing. By H. C. Wyatt, for rent of Opera House By Adolph Ekstein, for chamois leather		15	00		
June 30_		By Jos. Gartreich, for cleaning and varnishing.		95	00		
June 30		By H. C. Wyatt, for rent of Opera House		25	10		
June 30.		By Adolph Ekstein, for chamois leather		10	65		
June 30.					00		
June 30.		By Kingsley & Barnes, for programmes. By L. B. Lawson, for filling and making diplomas By Stern, Loeb & Co., for ribbons By balance carried to forty-second fiscal year		15	w		
June 30.	. 448	By L. B. Lawson, for filling and making diplo-	Ì	95	00		
Inna 20	440	Pre Storm Took & Co. for mikhong		99	45		
June 30.	449	By belong corried to forty good food year		1,192			
		by paramee carried to forty-second fiscal year		1,102			
			\$21,000 00	\$21,000	00		
-	1	<u></u>	l	٠			

## LIBRARY AND MUSEUM FUND.

Date of Auditing.	No. of Voucher	•	Dr.	Cr.
1889.				
July 1 Aug. 31	292	To apppropriation for forty-first fiscal year——By The J. Dewing Company, for 2 vols. Encyclopædia Britannica	\$500 00	<b>\$10</b> 8
Nov. 30 1890.	323	By The Lewis Publishing Company, for History of Los Angeles County		18 (
Jan. 31 Feb. 28	350 360	By Phil. Hirschfeld & Co., for library books		172 (
Feb. 28	361	By Neuner & Mills, for binding and repairing By The History Company, for 4 vols. Bancroft's		49 j
April 30	391	History By W. B. Dunlap, for library books		22 ( 77 (
June 30	439	By Merrill & Cook, for music books		10 8
June 30	440	By James W. Queen & Co., museum pins By balance		3 4 137 (
		Totals	\$500 00	\$500 (

## CARE OF GROUNDS.

Date of Auditing.	No. of Voucher		Dr.		Cr.
1889. July 31 Aug. 31 Sept. 30 Oct. 31 Nov. 30 Nov. 30 Dec. 31	298 309 310 324 325 336	To appropriation for forty-first fiscal year			\$50 00 54 00 50 00 51 4 50 00 35 8 50 00 2 00
Dec. 31 1890.	837	By Orlando Moore, for gravel for repairs			2 0
Jan. 31 Jan. 31 Feb. 28 Mar. 31 April 30 April 30 April 30 May 31 May 31 June 30 June 30	347 362 375 392 393 394 415 416 417	By George H. Williams, for gravel By William Capple, for work in January. By William Capple for work in February By William Capple, for work in March. By W. R. Lewis, for work with team By William Capple, for work in April By M. S. Whitcomb, for work with team By William Capple, for work in May By Isaac R. Raygood, for work By William Bedney, for work with team By William Capple, for work in June By William Capple, for work in June By Isaac R. Raygood, for work By balance			9 00 52 00 46 00 52 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00 652 00
		,	<b>\$</b> 750	00	\$750 00

## SUMMARY OF PETTY CASH ACCOUNT.

•	Dr.	Cr.
Forty-first Fiscal Year.		
July 1, 1889.—To amount on hand as per last report  To rent of room to United States Magnetic Observatory.  To water used in United States Magnetic Observatory.  To amount received for coal used in Model School.  To amount received from Current Expense Fund.  To amount received for brick  By amount paid for expressage  By amount paid for freight and cartage.  By amount paid for telegraphing  By amount paid for books and printing.  By amount paid for interest  By amount paid for sundry small bills  By balance.	6 00 36 00 57 46 7 00	8 00 11 35 15 55
•	\$183 54	\$183 54

## IMPROVEMENT OF GROUNDS FUND.

Date of Auditing.	No. of Voucher		Dr.	Cr.
1889. July 1 July 31	286	To appropriation for forty-fiscal year By Los Angeles Construction Co., for earth fill- ing on Normal grounds	\$500 00	\$3 <u>4</u> 5 57
Nov. 30 Nov. 30	326 327	By F. M. Parker, for storm drain		107 00 47 35 08
			\$500 00	\$500 00

## GYMNASIUM BUILDING ACCOUNT.

Date of Auditing.	No. of Voucher		Dr.	Cr.
1890.		(n)	210 000 00	
Tom 91	040	To appropriation for building and furnishing.	\$10,000 00	0150 50
Jan. 31	348	By payroll of employes.		\$150 70
Jan. 31	349	By W. R. Lewis, for work with team, grading.		32 40
Jan. 31	3503	By W. R. Lewis, for hauling sand and gravel		32 00
Jan. 31	351	By M. S. Whitcomb, for hauling gravel.		12 00
Jan. 31	352	By payroll of employes		144 10
Jan, 31	353	By O. J. Muchmore, for building permit		5 00
Jan. 31	354	By payroll of employes	ĺ	151 00
Feb. 28	363	By W. R. Lewis, for hauling sand and gravel		21 75
Feb. 28	364	By W. R. Lewis, for hauling sand and gravel. By James R. Gamble, for brick delivered		370 88
Feb. 28	365	By payroll of employés		155 00
Mar. 31	366	By payroll of employés		,
		fications		250 00
Mar. 31	367			235 85
Mar. 31	376	By payroll of employee		183 40
Mar. 31	977	By payroll of employés By payroll of employés By Thos. José, for stone delivered By Union Lumber Company, for lumber		69 75
Mar. 31	378	By Union Lumber Company, for lumber		374 75
April 30.	970	Pr I A Planing Will Componer for next next		014 10
-L-rr 00	379	By L. A. Planing Mill Company, for part pay-		<b>200 00</b>
April 30	اممرا			500 00
April 30.				121 42
		By payroll of employes		<b>165</b> 00
April 30	382			
21		ered		543 60

#### FINANCIAL REPORT-Continued.

		FIRARCIAL REPORT—COntinued.	1	
Date of Auditing.	No. of Voucher		Dr.	Cr.
April 30		By payroll of employes		\$264
April 30 April 30		By payroll of employes.  By Union Lumber Company, for lumber deliv-		120
April 30	398			
May 7	399	By Ganahl Lumber Company, for lumber	-,	251
May 7 May 7	400 401	By Whittier, Fuller & Co., for cement. By Ganahl Lumber Company, for lumber. By Haben & Philip, for sheet-iron and tin work. By L. A. Lime Company, for lime for foundation. By Fruhling Bros., for iron work. By Baker Ironworks, for use of derrick.		191 88
May 7	402	By Fruhling Bros., for iron work		334
May 7 May 7	403 404	By payroll of employés		108
May 31	418	By payroll of employés By Livingston & Cornelius, for ventilators		21
May 31 May 31		By Union Lumber Company, for lumber By Brown & Foster, for hardware	·	41 192
May 31	421	By payroll of employés By L. A. Planing Mill Company, for lumber	,	166
May 31	422	and lahor		750 (
June 30				293
June 30 June 30		By L. A. Planing Mill Company, for lumber		219
		and labor		936
June 30 June 30	444	and labor  By P. H. Mathews, for paints and oils  By Brown & Foster, for hardware.  By Ganabl Lumber Co. for lumber		124 13
June 30	446			
June 30	1 447	Ry payroll of employés		971
June 30 June 30	448 <del>3</del>	By Tutts-Lyon Arms Co., for apparatus		32 4 82 4
Aug. 30	469	By Tufts-Lyon Arms Co., for apparatus.  By Tufts-Lyon Arms Co., for apparatus.  By Tufts-Lyon Arms Co., for apparatus.		885
-		By balance of apppropriation in State Treasury		10
			\$10,000 00	\$10,000

## PRINCIPAL'S REPORT.

To the Board of Trustees of the State Normal School at Los Angeles:

GENTLEMEN: The work of the past year does not differ materially from that of the preceding years. The school is steadily increasing in numbers and improving in quality. In no part of the State has the improvement in the public schools been so rapid during the past few years as in Southern California; and the Normal School, while itself a factor in this development, receives the benefit of students much better prepared for its own course of study and discipline.

The good effects of but one admission and one graduation during the year are already shown in the increased constancy of attendance. Students do not take the Normal course as "catch-up work" to occupy their otherwise leisure time, but enter with a purpose of graduating. The only remaining Christmas class will go out this coming year, and then we shall have only the regular Junior, Middle, Senior, and Post Graduate Classes; one class on each year of the course.

The graduates of the past year are: a class of eighteen at Christmas, 1889; and a class of twenty-eight in June, 1890, making forty-six on the three years' course; also, in June, 1890, a class of four on the Post Graduate course, making fifty graduates for the year. For the benefit of those who are inclined to question if Normal graduates teach, and thus return to the State the equivalent of the special education they have received, we have kept a record of the work of our first class of twenty-two, which graduated in 1884, exactly six years ago, and find they have made an average of four and nine tenths years of teaching. This seems to make certain the fulfillment of the promise made from the platform when they received their diplomas. This class will teach ten years. Other classes are doing as well; and the coming years will, I doubt not, show the average work of the Normal graduate to be at least ten years.

The necessity of bodily training of students who are fitting for teachers has long been apparent. The Normal Schools work their students hard, and the temptation to spend the time out of school poring over books and notes, lest the next promotion should not be secured, or the subject and the premethod of presentation should not be thoroughly mastered for future teaching, uses up the precious hours and leaves no fraction of time for that exercise which alone develops the body and keeps it in a proper state of health. The best advice and suggestion produce but spasmodic reform. The teacher goes out fitted in mind but not in body, and the coming years of work must be sandwiched with frequent years of rest, or an early breakdown ends a promising career.

To meet this want of physical culture the last Legislature made an appropriation of \$10,000, in answer to a call of the Trustees of this school, for building and furnishing a gymnasium. With \$9,000 of this appropriation a handsome building has been erected and put in order use. One thousand dollars' worth of apparatus is on the way from

3 30

the manufacturers, and the whole will be complete for use before September 2, 1890, when the school opens for the year. It is intended that each student shall practice in calisthenic or class gymnastic exercises under the careful supervision of a skilled instructor, for about the time of one recitation period each day. Only those whose judgment can be trusted will be allowed to practice gymnastic exercises without supervision, as much harm sometimes results from the over exertion of would be gymnasts.

The building is so constructed that if at any time you should think it best to have the girls (for all Normal Schools are filled mainly with girls in these days) taught practically in the use of the fore-plane, ada, and hand-saw, the apparatus needs only to be replaced with work benches, lathes, and tools, and its design as a perfect manual training

school will be apparent.

A separate building for a chemical and physical laboratory is much needed. This would give us extra class-room in the main building now becoming crowded, and remove the chemistry to a place where the constant experimenting, made necessary by the practical teaching of to-day, should not be an "ill savor filling the nostrils of the people."

Very respectfully submitted.

IRA MORE, Principal.

STATE NORMAL SCHOOL AT CHICO.

## REPORT OF TRUSTEES OF STATE NORMAL SCHOOL,

## CHICO.

To his Excellency R. W. WATERMAN, Governor:

Sir: We herewith submit, for the State Normal School under our charge, the financial report for the forty-first fiscal year, ending June 30, 1890. In view of the demands incident to the organization of a school of this character, we trust you will find that the funds intrusted to us have been judiciously expended. By reference to the report of the Principal of the school, and to the annual catalogue, it will be seen that the first year's attendance was much larger than any one expected. To provide for this and for the natural growth of the school, an increase in the number of teachers in the Normal Department will be required next year, which, together with the expense attending the establishment of the Training and Model School, will necessitate a very careful handling of the remainder of the appropriation of \$27,000.

Good work has been done by the school, and, because of its influence a new interest is already being felt in the cause of common school edit

cation in this part of the State.

For the two fiscal years—forty-third and forty-fourth—to enable the school to do the best work, the following appropriations will be required

For current expenses	<b>\$42</b>	300.	) OĎ
For library	5.	.000	) Of
For museum and apparatus	3	,000	) 00

This, at first thought, may seem too large, but we must include under current expenses, not only those of the Normal Department and the Training School, but also the care of the grounds, which consist of eight acres. An extra library appropriation is asked for the next two years because with the same course of study we are expected to do the same work as is done in the other Normal Schools of the State. This is impossible, while we have only one tenth of the supply of books and apparatus. We have, as yet, been able to spend nothing on the museum and we have a very limited amount of the apparatus necessary in the scientific department of the school; therefore, we ask for the above amount to help us in making a beginning. After a foundation is laid there will only be required an amount proportional to that received by the older schools.

Very respectfully submitted.

F. C. LUSK, President of Trustees.

Edw. T. Pierce, Secretary.

August 15, 1890.

## FINANCIAL REPORT

of the California State Normal School at Chico, for the Forty-first Fiscal Year, ending June 30, 1890.

#### CURRENT EXPENSE ACCOUNT.

Date of Auditing.	No. of Voucher		Dr.	Cr.
1889.	a. tob.	To appropriation for current year	\$13,500 00	
Aug. 1	a. to f.	By salaries of emyloyés for July, 1889		<b>\$416 66</b>
Sept. 3	2	By salaries of employes for August, 1889		758 33
Sent. 27	a. to f.	By salaries of employes for September, 1889		783 34
Sept. 27 Sept. 27	4	By Marysville "Democrat," advertising By Marysville "Appeal," advertising By Colusa "Sun," advertising By Chico "Chronicle-Record," advertising By Cheone "Appeal," advertising		4 00
Sept. 27	.  5	By Shasta County "Democrat," advertising		3 50
Sept. 27 Sept. 27	6	By Marysville "Appeal," advertising		7 30
Sept. 27	7	By Colusa "Sun," advertising.		2 00
Sept. 27	. 8	By Chico "Chronicle-Record," advertising		5 00
Sept. 27	9	By "People's Cause," advertising By M. L. Seymour, holding examinations		5 00 9 95
Sept. 27 Sept. 27	11	Ry C. M. Ritter holding examinations		86 10
Sept. 27.	12	By C. M. Ritter, holding examinations By Chico "Enterprise," advertising and print-		
Sept. 27	. 13	ing By John R. Gleeson, postage stamps		9 00 25 00
•	a. to f.		ł I	
0ct. 28	. 14	By salaries for October, 1889		<b>783 35</b>
0ct. 28	. 15	By salaries for October, 1889.  By E. T. Pierce, \$100 to be used in paying current small bills * By Gladding, McBean & Co., clay By H. N. Gustin, miscellaneous supplies. By salaries for November, 1889. By Postmaster, postage stamps By W. B. H. Dodson, advertising By Hibbard & Sommers, miscellaneous supplies. By salaries for December, 1889.	1	
Oct. 28.	16	By Gladding, McBean & Co., clay		6 00
Nov. 29.	. 17	By H. N. Gustin, miscellaneous supplies	.	94 25
Nov. 29	. 18	By salaries for November, 1889		<b>783 35</b>
Nov. 29.	. 19	By Postmaster, postage stamps	·	10 00
Nov. 29-	20 21	By W. B. H. Dodson, advertising		4 00
Nov. 28.	21	by Hibbard & Sommers, miscenaneous sup-		19 30
Dec. 22	22	By salaries for December, 1889		783 33
1890.				
Jan. 27 Jan. 27	23	By E. T. Pierce, miscellaneous small bills By A. Miller, wood		9 80 6 25
Vall. 21 -	a. tog.	· ·	1	, 020
Jan. 27	25	By salaries for January, 1890	}l	843 35
Jan. 27.	_ 26	By Hibbard & Sommers, supplies		5 80
Jan. 27 Feb. 24 Feb. 24	_ 27	By salaries for January, 1890 By Hibbard & Sommers, supplies By R. Diller, wood		137 50
Feb. 24.	. 28	By Sierra Lumber Co., work By Payot, Upham & Co., supplies	-	2 50
Feb. 24_	a. to h.	By Payot, Upham & Co., supplies	-	7 65
Feb. 24	30	By salaries for February, 1890		848 35
Feb. 24. Mar. 25.	31	By H. N. Gustin, supplies.		27 70
Mar. 25.	_\ 32	By salaries for February, 1890 By H. N. Gustin, supplies By Weed & Bernard, team		5 00
Mar. 25.	_ 33	By Coggins Bros., lumber By H. Metum, work By L. P. Drexel, supplies By Chico Transfer Co., drayage By Hibbard & Sommers, stencil maps		6 69
Mar. 25. Mar. 25.	- 34	By H. Metum, work		8 12
Mar. 25.	- 35 - 36	By L. P. Drexel, supplies.	-  <i></i>	18 90
Mar. 25.	37	By Hibbard & Sommers stencil mans	-	1 25 5 85
-41, 20.	a. to h.		l l	
Mar. 25_	38	By salaries for March, 1890		848 35
Apr. 26.	_ 39	By salaries for March, 1890 By R. Diller, wood By M. Oser, cloth By H. N. Gustin, supplies	-	183 00
Apr., 26.	- 40	By M. Oser, cloth		3 75
Apr. 26.	- 41 a. to i,	By H. N. Gustin, supplies		85 15
Apr. 26.	. 42	By salaries for April, 1890		867 35
May 22	a. 101.	By salaries for May 1890		885 <b>6</b> 5
May 23	44	By salaries for May, 1890 By E. T. Pierce, sundry small bills		8 56
May 23. May 23.	45	By Hubbard & Earll, supplies (hardware)	-	37 42
May 23.	46	By H. T. Batchelder, postage stamps	.	30 00
Not all	owed.			•

## REPORT OF TRUSTEES OF STATE NORMAL SCHOOLS. FINANCIAL REPORT—Continued.

Date of Auditing.	No. of Voucher		Dr.	Cr.
June 9 June 9 June 9 June 9 June 9 June 9 June 9 June 23 June 23 June 23	48 49 50 51 52 53 54 55 56 57 58	By Coggins Bros., rulers, pointers, etc		34 15: 18: 889: 100: 9: 3: 22: 2,760

#### LIBRARY AND MUSEUM.

Date of Auditing.	No. of Voucher		Dr.	Cr.
1889.				
July 1 Sept. 27 Oct. 28	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	To appropriation for current year By Deveney & Crew, Chemicals and glassware. By D. Appleton & Co., Cyclopædia of A B	\$1,000 00	\$15 00 28 8
Nov. 29	3 1	By Bancroft Bros., Zell's Encyclopædia		36 00
Nov. 29 Nov. 29	4 5	By Hibbard & Sommers, magazines and period-		361 0
Nov. 29		icals By Hibbard & Sommers, library books		44 60 75 15
Dec. 22.	. 8	By Bay State Publishing Co., relief maps By Deveney & Crew, museum jars and supplies	1	24 0 104 6
Dec. 22 Dec. 22	9	By Ginn & Co., music By H. N. Gastin, music books		6 22 87 0
1890.				
Jan. 27. May 23.				195 l 15 0

### SUMMARY FOR FORTY-FIRST FISCAL YEAR.

	Dr.	Cr.
CURRENT EXPENSE.		
To receipts By disbursements	\$13,500 00	
By balance		2,760
LIBRARY AND MUSEUM.	\$13,500 00	\$13,500
To receipts  By disbursements  By balance	\$1,000 00	\$992 7
	\$1,000 00	\$1,000

## PRINCIPAL'S REPORT.

To the Board of Trustees of the California State Normal School at Chico:

GENTLEMEN: The first year of the State Normal School under your charge has just closed. The opening of the school marks an epoch in the educational history of this part of our State. The large number of students who have availed themselves of its advantages indicates the wisdom of the legislators in locating north of Sacramento a professional school for teachers. With a Normal School at San José, near the central part of the State from north to south, and one at Los Angeles in the southern part, a similar institution for Northern California was an imperative necessity if the schools of this immense region were to keep pace with the educational progress evinced in other parts of our great commonwealth.

One hundred and ten students have been in attendance during the year, and these students have represented the following counties: Modoc, Lassen, Plumas, Siskiyou, Shasta, Tehama, Butte, Colusa, Yuba, Calaveras, Nevada, Sonoma, Lake, Solano, Sacramento, San Joaquin, and El Dorado.

The many inquiries in regard to the school indicate that there will be a reasonable increase in numbers at the beginning of the second year. Believing it wise to lay a firm foundation for the future well-being and success of the school, the Faculty have been careful to admit only those who are fairly well prepared to do the work with credit. This has been thought better even at the beginning, as the real success of a Normal School is shown not in the number of students on the roll, but in the character of the work done, and in the fitness of its graduates for the responsible work of teaching.

The first class will graduate one year from now, and the energy and enthusiasm with which its members have performed the duties required of them, indicate that they will be well prepared to take charge of schools and do good work.

At the opening of the school in September the Training and Model Departments will be organized. I hope to put into practice in that part of the Normal School certain plans which will, I believe, add much to the institution as a professional training school for teachers.

Two more teachers will be required in the Normal Department of the school, and two teachers who are especially prepared to oversee and properly direct the work in the Training School will be needed in that

General plans for the school during the coming year have been given in my report in the annual catalogue, and, therefore, need not be repeated here.

As you are aware, many difficulties have presented themselves during this first year of the school. The unfinished state of the building has been an especial annoyance, while our library and apparatus have been insufficient for the needs of the classes. I trust that the next Legislature, realizing the importance of this school to the well being of the State, will appropriate enough money to finish the building and give our library and the scientific departments a proper nucleus of books and appliances for future growth.

In conclusion, I thank you most heartily, gentlemen of the Board for the support you have given me during this trying period of organization, and for the uniform kindness and courtesy you have shown me at all times. You have patiently listened to my many requests and have done everything in your power to further the success of the school. The people of the State owe you a debt of gratitude for the time and attention which you have shown to their interests in the work of building and organizing this public institution.

With an abiding faith in the continued success of the school, and i renewed zeal for the work of the coming year,

I am, most respectfully,

EDW. T. PIERCE,

Principal.

August 15, 1890.

## BIENNIAL REPORT

OF THE

## BOARD OF STATE HARBOR COMMISSIONERS

FOR THE TWO FISCAL YEARS

COMMENCING JULY 1, 1888, AND ENDING JUNE 30, 1890.



SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

## REPORT.

To Hon. R. W. WATERMAN, Governor of the State of California:

Pursuant to Sections 332 and 2537 of the Political Code, the Board of State Harbor Commissioners, having control of the waterfront of the city and county of San Francisco, submits this report of its transactions from the thirtieth day of June, 1888, to the first day of July, 1890, showing a full report of all moneys by it received and disbursed, and stating specifically the sources of such receipts, and the purposes for which the disbursements were made, accompanied with a description of the improvements made, and a statement of the condition of the property under its charge.

The details of the receipts and disbursements appear in the tabular statements annexed hereto—the following is a summary of them:

	<u> </u>		
Receipts.	1888-9.	1889-90,	Total.
From dockage From tolls From wharfage From rents of wharves and seawall lots, and spe-	\$218,666 10 221,860 14 7,489 14	\$207,714 50 195,384 32 10,903 08	\$426,380 60 417,244 46 18,392 22
cialdock privileges, including reserving of berths. From sale of old material From dredging From Fishermen's Wharf (exclusive of rents). From miscellaneous (damages to property, etc.)	3.047 76		341,728 90 6,560 57 1,080 00 6,136 85 1,119 52
Total receipts	\$619,537 54	\$599,105 58	\$1,218,643 12
provement Fund	247,137 61	311,633 96	558,771 57
Totals	\$866,675 15	\$910,739 54	\$1,777,414 69
DISBURSEMENTS.	1888-9.	1889-90.	Total.
Salaries of Commissioners, Secretaries, Engineers, Draughtsmen, Attorney, Wharfingers, Collectors, Watchmen, and clerks in Secretary's office. Construction, including building of new wharves, sheds, sewers, and roadways, maintenance and repairs of outer half of waterfront streets, old wharves, buildings, roadways, and seawall	281,358 84 15,812 60 62,424 96 99,765 47 1,820 77	\$90,647 45 301,063 18 16,177 58 51,588 91 97,632 20 17,787 28	\$195,562 10 532,417 02 31,990 18 114,013 87 197,397 67 19,608 05
Fire account. General expenses, including office rent, fuel, stationery, printing, legal expenses, lighting wharves, overpaid revenue returned, and other incidental expenses	4,941 55 24,036 19	4,988 65 24,706 09	9,980 20 48,742 28
Total disbursements	\$545,070 03 321,605 12	\$604,591 34 306,148 20	\$1,149,661 37 627,753 32
Totals	\$866,675 15	\$910,739 54	\$1,777,414 69
		1	<del></del>

From which summary it appears that there was received during the last two fiscal years the sum of \$1,218,643 12, and expended \$1,149,-

661 37, showing an increase in the amount in the San Francisco Harbo Improvement Fund from \$203,555 37, the amount therein at the clos of the last report, to \$272,537 12, a gain of \$68,981 75.

The following shows the condition of the San Francisco Harbor In

provement Fund:

Amount in fund July 1, 1888	\$203,5 627,7	i55 37 753 32
	\$831,8	08 <b>Q</b>
Amount drawn out to June 30, 1890Amount in fund July 1, 1890	\$558,7 272,5	71 57 37 11
	\$831,3	08 <b>6</b>

Construction account has been segregated under two heads:

First—Seawall, and the structures appertaining thereto, and the roat way connected therewith.

Šecond—All other contract work.

#### SEAWALL.

Section 7. The contract for the construction of Section 7 of the sea wall was awarded to J. S. Tibbals on the twelfth day of May, 1887, he being the lowest bidder. He did not commence the work promptly, and failed to prosecute it as vigorously as he should, and so but little prog ress was made when his death occurred, in February, 1888. The contract did not provide how much work should be done each month, the only limitation being that it should be completed within one year; but the Board, in making payments for what work was done, retained 2 per cent of the estimated value of the material used and work performed Owing to the death of Mr. Tibbals, work was stopped until May 19 1888, when a sale of the contract was made by his estate to J. 8 Antonelle and George D. Nagle, with the approval of the Superior County On July 23, 1888, Messrs. Antonelle & Nagle assigned their interest in the contract to the San Francisco Contracting Company, who undertook the completion of the work, and completed the wharf and brought the embankments to grade on May 31, 1889. The embankments were then maintained for a period of three months, when the work was accepted and final payments made.

There was paid for this work as follows:

Stone, 91,307% tons, at 68 cents per ton of 2,240 pounds.	\$62,088 95
Earth, 74,217% cubic yards, at 33 cents per cubic yard.	24,739 04
Wharf	22,500 00
Total cost	\$100 227 00

Of this amount, \$6,918 28 was paid prior to the date of the left report (June 30, 1888), and the balance, \$102,409 71, was paid since.

The estimates for the stone and earth for this section were based upon the amounts used in the construction of Sections 5 and 6, and they were in excess of the actual amounts used: Stone,  $18_{100}^{76}$  per cent; and earth  $16_{100}^{76}$  per cent.

The construction of this section made necessary the removal of a potion of the Jackson and Washington-Street Wharves and the construction of temporary roadways. A contract was awarded for this wo

prior to June 30, 1888, but payment was made since. Contract price, \$2,500.

Section 8 (b). On the twenty-third day of October, 1888, the Board met to award a contract for the construction of Section 8 (b) of the seawall. Twelve bids were received, as follows:

NAME OF BIDDER.	Timber Foundation.	Concrete— per Cubic Yard.		Stone per Ton.	Total.
John W. Ferris M. J. Kelly and John Hackett B. McMahon & Son. San Francisco Contracting Co Rudolf Axman & Co. Hoffman & Bates Pacific Bridge Co. American Bridge and Building Co. John Kelso George D. Nagle San Francisco Bridge Co. J. S. Antonelle	72,643 00 49,092 00 51,318 00 78,742 00 41,610 00 57,000 00 71,000 00	\$13 838 24 00 14 50 24 75 17 00 14 62 24 00 20 00 16 00 10 00 15 00 11 90	\$0 60 50 42 60 70 35 57 40 40 45 40	\$1 20 99 1 07 80 85 82 1 00 75 1 00 1 50 98 1 15	\$131,366 40 164,978 00 135,987 00 148,877 00 138,220 00 138,250 00 138,250 00 136,200 00 126,000 00 128,976 00 118,688 00

The contract was thereupon awarded to J. S. Antonelle, he being the lowest bidder.

This section is located at the foot of Market Street, and as the construction of a large building, arranged for the rapid and convenient handling of passengers, baggage, mail, express, and freight, is contemplated at this point, it was considered necessary, in order to secure a proper foundation for such building, to substitute a concrete wall for the stone embankment used in the sections previously built. The specifications for this work provided for the construction of the concrete wall by the use of coffer dams, but the contractor, after several ineffectual efforts to construct a coffer dam, made application to the Board to be allowed to perform the work with caissons. To this the Board agreed, with the stipulation that there should be deducted from the contract price the sum of \$5,027 04, the estimated difference in the cost of the two methods.

The contractor has performed work amounting to \$92,869 37, 75 per cent of which, \$69,652 04, has been paid, in accordance with the terms of the contract, the remaining 25 per cent to be paid upon the final completion and acceptance of the work.

A contract was awarded for the removal of the structures in the area to be occupied by this section, by which the contractor agreed to perform the work, and in addition pay to the Board \$762, all the wharf material removed to become his property.

## COST OF THE SEAWALL.

The cost of constructing the several sections of the seawall and thoroughfare is as follows:

Section A, 561 feet long, \$152 61 p	oer linear foot	<b>\$85,614</b> 53
Section 1, 1,000 feet long, \$165 63 p		165,631 40
Section 2, 1,000 feet long, \$167 50		167,504 09
Section 3, 1,000 feet long, \$235 50	per linear foot	235,049 51
Section 4, 1,000 feet long, \$240 87		240,872 01
Section 5, 1,000 feet long, \$169 89	per linear foot	169,893 57
Section 6, 800 feet long, \$158 47		126,779 73
Section 7, 1,000 feet long, \$109 32	oer linear foot	109,327 99
, .,		

Total cost of 7,361 feet (average cost per linear foot, \$176 70) ... \$1,300,672 85

The marked decrease in the cost of Section 7 of the seawall is due to the fact that less material was used in the construction thereof, the old seawall projecting into the area to be occupied by this section.

PAVING SEAWALL ROADWAY AND STREETS ADJACENT THERETO.

The acquisition of the seawall lots necessitated the improvement by the Board of the streets upon which such property fronts, and the following contracts were let for paving portions of such streets and the

seawall roadway since July 1, 1888:

On the twentieth day of August, 1889, a contract was entered into with J. W. McDonald to pave with basalt blocks portions of Drum Street, Broadway, and the seawall thoroughfare. The contract price for such work was \$5,989, but additional paving ordered by the Board increased the price to \$6,982 47, from which was deducted \$81 45 for granite and wooden curbing not required, leaving the amount paid \$6,901 02. The work done under this contract consisted of twenty-six thousand seven hundred and sixty-two square feet of basalt block paving, four hundred and sixty linear feet of granite curbing, three hundred and forty linear feet of wooden curbing, and two cesspools.

A contract was entered into with F. H. Pitman on the twenty-first day of October, 1889, to pave with basalt blocks portions of Bay, Battery, and Davis Streets, and of the seawall thoroughfare. The following

lowing work was done:

Work Done.	Contract Price.	Amount
96,741 square feet paving. 1,7954 linear feet stone curbing 2,083 linear feet wooden curbing. 4 cesspools 5 drains.	\$0 22½ 1 08 18 120 00 70 00	\$21,766 79 1,939 19 374 99 480 00 350 00
9,970 square feet additional paving, at 21 cents	•••••	\$24,910 8 2,093 W \$27,004 \$

A contract for paving portions of Broadway, Vallejo Street, and the seawall thoroughfare, was entered into with John Hackett and John Sherry on the twenty-fifth day of November, 1889, and the following work was performed thereunder:

Work Done.	Contract Price.	Amount
23,057 square feet paving. 636 linear feet stone curbing. 182 linear feet wooden curbing. 2 angular corners.	\$0 21 1 08 20 60 00	\$4,841 686 36 120 \$5,685

By reference to the contracts for paving, in the financial statement in this and previous reports, it will be seen that the paved roadwe extends from Section 1 of the seawall to the end of Sub-section 8 (b) a distance of six thousand six hundred and fifty feet, or one and of

quarter miles. Throughout this distance the roadway is paved with basalt blocks for a width of forty feet.

Proper entrances into the city's streets are provided as fast as the

city authorities prepare their portions.

By the continued neglect of the city authorities to properly build and maintain that portion of the waterfront streets legally under their jurisdiction, the Board has been at times compelled to perform this work or subject the commerce of the port to delay and inconvenience.

#### REPILING SEAWALL WHARF.

A contract was entered into with the San Francisco Bridge Company prior to, but no payment had been made thereon at the date of the last report, for repiling the wharf along Sections 1, 2, 3, and 4 of the seawall. The following work has been performed and paid for since:

	Furnishing, driving, and fastening 1,077 piles at the contract price of \$12 87 per pile	\$13,860	99
•	contract price of \$32 50 per M. feet.  Putting in compound stringers, rebolting and refastening piles, etc.	389 147	
	Less deduction—cost of repairing gutter	\$14,397 36	01 00
		\$14,361	01

#### CONSTRUCTION ACCOUNT.

This account embraces all contract work not relating directly to the seawall.

It is classed under three heads:

First—Work contracted for prior to and completed since June 30, 1888. Second—Work contracted for and completed since June 30, 1888. Third—Work contracted for but not completed June 30, 1890.

There is a marked difference in contract prices for repiling the various wharves; the wharves covered by sheds being more expensive to repile, as a greater length of time is necessary in which to do the work, and the contractor is required to repair the roofs of the sheds necessarily damaged

by the piling.

First.

Pier to project from Stewart Street at foot of Harrison Street. Average length, 548½ feet, with a width of 80 feet. Date of contract, October 25, 1887. American Bridge and Building Company, contractor.

Contract price Extras—2 brace piles and extra length on 72 fender piles	\$32,833 00 173 44
Less deduction for omission of 12 cluster piles	\$33,006 44 192 00
-	\$32,814 44

Of this amount, \$19,699 80 was paid prior to last report, and the balance, \$13,114 64, was paid since.

Pier and shed thereon, near the foot of Lombard Street; size of pier, 545 feet by 100 feet; size of shed, 520 feet by 90 feet. Date of contract, October 25, 1887. B. McMahon & Son, contractors.

Contract price	\$36,750	00
Extras on account of change of location:	. ,	••
Extra length on 1,070 piles		
Extra lumber, 8,880 feet	1,939	94
•	\$38,689	94
Of this amount, \$25,193 25 was paid prior to last report \$13.496 69, was paid since.	; the b	ala
\$13,496 69, was paid since. Repiling Washington-Street Pier (this pier is covered Date of contract, March 20, 1888. B. McMahon & Son, c	with a contract	sł
\$13,496 69, was paid since.  Repiling Washington-Street Pier (this pier is covered Date of contract, March 20, 1888. B. McMahon & Son, of Furnishing, driving, and fastening 333 piles, at contract price of \$21 25 per pile	with a contract	sl or
Repiling Washington-Street Pier (this pier is covered Date of contract, March 20, 1888. B. McMahon & Son, of Furnishing, driving, and fastening 333 piles, at contract price of	with a contract	s] or 25

Repiling Berry-Street Pier. Date of contract, May 24, 1888. American Bridge and Building Company, contractor.

### Second.

Paving portion of East Street, between Market and Howard Streets, with basalt blocks. Date of contract, September 24, 1888. J. W. Mo Donald, contractor.

Contract price	\$9,199 00
Extra filling, 2,975 cubic yards	892 50
, , , , , , , , , , , , , , , , ,	
	\$10,091 50

Rebuilding south side and east end of Union-Street Wharf. Date of contract, October 29, 1888. B. McMahon & Son, contractors.

Furnishing, driving, and fastening 400 piles, at contract price of	\$4,900 00
\$12 25 per pile  Furnishing, fitting, and fastening 29,918 feet (B. M.) lumber, at  contract price of \$23 per M. feet	688 11
-	ØK KOO 11

Rebuilding north side and east end of Green-Street Wharf. Date of contract, October 29, 1888. B. McMahon & Son, contractors.

Furnishing, driving, and fastening 478 piles, at contract price of \$12 10 per pile	\$5,783 80
contract price of \$23 per M. feet	639 10
	\$6,422 90

Pier to project from Brannan Street near the foot of Fremont Street Average length, 702½ feet, with a width of 100 feet, and an approach having an average length of 194 feet, and a width of 70 feet. Date of contract, January 15, 1889. San Francisco Contracting Company, contractor.

Contract priceLess deduction—allowance for coating on 15 fender piles	\$32,723 00 262 50
<u>-</u>	

\$32,460 50

Coating piles with "Key West Pile Armor." Date of contract, January 15, 1889. M. Connell, contractor.

Apron and slip to project from Section 7, seawall, between Jackson and Washington-Street Piers. Date of contract, April 15, 1889. B. McMahon & Son, contractors.

Contract price		\$2,500.00
Addition to contract: Forty-four piles, at \$26 88 Nine piles, at \$22 75	<b>\$1,182</b> 72	• ,
Apron, as per agreement	675 00	
Four men and driver, one half day	18 00	2,080 47
	~	\$4,580 47

Three connecting wharves in Brannan Street, 118½ feet by 74 feet, 100 feet by 74 feet, and 85 feet by 72 feet, and replanking portions of adjacent structures. Date of contract, May 8, 1889. B. McMahon & Son, contractors.

Contract price	\$9,100 00 1,150 00
	\$10,250 00

Repiling and repairing Broadway Wharf No. 2 (this wharf is covered with a shed). Date of contract, May 23, 1889. San Francisco Bridge Company, contractor.

Furnishing, driving, and fastening 40 standard piles, at contract price of \$18 53 per pile	\$741	20
price of \$18 53 per pile. Furnishing, driving, and fastening 118 fender piles, at contract price of \$17 03 per pile. Furnishing, driving, and fastening 30 brace piles, at contract price	2,009	54
Furnishing, driving, and fastening 30 brace piles, at contract price of \$22 74 per pile  Furnishing, fitting, and fastening 4,976 feet (B. M.) lumber, at	682	20
contract price of \$30 90 per M. feet	153	76
	\$3,586	70

Two office buildings on wharf of Section 7 of seawall, opposite Washington-Street Pier—each 32 feet long, 19 feet wide, with 12 feet height of story. Date of contract, July 10, 1889. Peter Ahern, contractor.

Contract price Extras, change in plans, etc.	\$1,479 00 105 00
	\$1.584 00

Coating piles with "Key West Pile Armor," also called "Vulcan Pile Armour." Date of contract, August 6, 1889. M. Connell, contractor.

Thirty-five thousand and seventy-five linear feet of piles coated at contract price, at 40 cents per foot.  Extra—coating 900 linear feet of 16-inch piles, at 10 cents per foot, extra	\$14,029 92 90 00
•	\$14 110 Q2

Repiling Folsom-Street Pier No. 1 (this pier is covered with a shed). Date of contract, August 15, 1889. B. McMahon & Son, contractors.

10	REPORT OF STATE BOARD OF HARBUR COMMISSIONE.	us.
	Furnishing, driving, and fastening 269 piles, at contract price of \$25 96 per pile.  Furnishing, fitting, and fastening 943 feet (B. M.) lumber, at contract price of \$36 per M. feet  Less deduction—allowance for 75 feet coating on 5 piles, at 40 cents per foot	\$6,983 24 33 95 \$7,017 19 30 00
	<del>-</del>	\$6,987 19
	epiling and repairing Folsom-Street Pier No. 2. Date ust 16, 1889. San Francisco Bridge Company, contrac	of contra
,	Furnishing, driving, and fastening 98 piles, at contract price of \$18 49 per pile.  Furnishing, fitting, and fastening 3,556 feet (B. M.) lumber, at contract price of \$30 per M. feet.  Three hundred and sixty-one feet extra planking and curbing	\$1,812 02 106 68 7 94 \$1,926 64
R 17, 1	ebuilding sides of Mission-Street Pier No. 1. Date of con 1890. San Francisco Bridge Company, contractor.	
	Furnishing, driving, and fastening 182 fender piles, at contract price of \$12 per pile.  Furnishing, driving, and fastening 148 brace piles, at contract price of \$17 per pile.  Furnishing, fitting, and fastening 73,333 feet (B. M.) lumber, at contract price of \$25 per M. feet.	\$2,184 00 2,516 00 1,833 33 \$6,533 33
R 1890	epiling and repairing Green-Street Pier. Date of control. B. McMahon & Son, contractors.	act, April
•	Furnishing, driving, and fastening 126 piles, at contract price of \$13 50 per pile.  Furnishing, fitting, and fastening 240 feet (B. M.) lumber, at contract price of \$22 50 per M. feet.	\$1,701 00 5 40
		\$1,706 40
Re 1890	epiling and repairing Vallejo-Street Pier. Date of contra Darby Laydon, contractor.	act, April 1
	Furnishing, driving, and fastening 115 piles, at contract price of \$13 37 per pile.  Furnishing, fitting, and fastening 21,618 feet (B.M.) lumber, at contract price of \$23 75 per M. feet  Extra—furnishing, driving, and fastening 39 brace piles, at \$17 per pile.	\$1,537 55 513 43 663 00
		\$2,713 98
Re Apri	epiling and repairing Howard-Street Pier No. 3. Date I 21, 1890. Darby Laydon, contractor.	of contract
	Furnishing, driving, and fastening 84 piles, at contract price of \$14 87 per pile	1,249 08 104 70
	- -	\$1,353 78

Float and gang plank for boat landing between Howard-Street Pl

No 3 and Folsom-Street Pier No. 1. Date of contract, April 24, 189

Alexander Hay, contractor.

Paving portion of East Street, between Market and Mission Streets, with basalt blocks. Date of contract, June 5, 1890. J. W. McDonald, contractor.

## Third.

Rebuilding Ferry Slip No. 1 and Clay-Street Pier. Date of contract, August 27, 1889. B. McMahon & Son, contractors.

Shed on Clay-Street Pier. Length, 360 feet, with a width of 76 feet for 200 feet, and of 46 feet for 160 feet. Date of contract, March 10, 1890. B. McMahon & Son. contractors.

#### DREDGING.

The greater depth of water necessary to accommodate the increased draft of larger vessels coming to this port, and the crowded slips interfering with the full movement of the dredgers, caused the number of yards dredged during the last two fiscal years to be smaller than the amount usually dredged.

During the fiscal year ending June 30, 1889, the cost of repairs to the plant was heavy, thereby increasing the total expenditures for this department to \$62,424 96, while the number of yards dredged (five hundred and thirty-six thousand eight hundred) was far less than in preceding years, and was mainly owing to the prolonged and difficult dredging for the seawall, being a crowded and narrow space through several wharves filled with stumps, stones, and various other obstructions.

This increase in the expenditures, and decrease in the number of yards dredged, increased the cost of dredging to \$11 62 per cubic yard.

During the fiscal year ending June 30, 1890, there were dredged six hundred and forty-five thousand three hundred cubic yards, at a cost of \$51,588 91, or \$7 99 per cubic yard, which is about the average cost.

The details of the work done, and expenditures made by this department, will be found in the tabulated statement on page 25.

No additions have been made to the plant for several years, but it will be necessary to add to and replace much of it at an early day.

#### PILE DRIVING.

The Board now owns two pile-drivers (one scow and one top driver), which have been operated to their full capacity since their construction.

## OUTSTANDING LEASES.

The only unexpired lease of waterfront property is that of the Pacific Mail Steamship Company, which yields a monthly rental of \$1,250, and which will expire January 6, 1892.

#### PRESERVATION OF PILES.

REPORT OF STATE BOARD OF HARBOR COMMISSIONERS.

The Board has not yet felt justified in incurring the expense of a cost creosoting plant without further experiments. To this end, various preparations of asphaltum, limestone, canvas, burlap, ship felt, etc., have been thoroughly experimented with. Whilst the time is too short to determine the absolute value of these trials, it is certain that a wide range of experience has been had, valuable in guiding to the final solu tion of this vital problem. Two carloads of thoroughly creosoted piles have been secured from the San Pedro works, and driven in the most exposed portions of the front. The engineer of the Board has carefully examined the most recently built creosoting plants on this and the Atlantic Coast, and reports of their operations are on file.

### REROOFING AND REPAINTING SHEDS.

The Board has under its jurisdiction some twenty acres of sheds. The oldest of these have been reshingled, and the roofs and sides given two coats of paint. Since the date of the last report, the sheds on Washington and Jackson-Street Piers have been reshingled and painted, and the inside whitewashed. The grain sheds, and the sheds on Broadway Nos. 1 and 2, and Mission and Folsom-Street Piers, have been repaired and repainted as well as minor structures. The outlay thus incurred is justified by the greater protection to merchandise, and by the greater durability and improved appearance of the waterfront property.

### EXAMINATION OF BOOKS AND ACCOUNTS.

Believing that the accounts of all public officers, particularly of those who are charged with the receiving and disbursement of public funds should be often and thoroughly examined, the Board has on several occasions during the last two years employed Mr. Julian B. Harries, competent and experienced accountant, to examine the books, vouchers, and accounts of this office. Mr. Harries has submitted three reports of his investigations, covering the period from March 26, 1883, to the thir tieth day of June, 1890, all of which are on file. The Board submit herewith a copy of his last report, omitting the other two on account of their length:

320 Sansome Street, Room 19. ) San Francisco, September 20, 1890.

To the honorable State Harbor Commissioners, San Francisco:

GENTLEMEN: Since the date of my last report, March 24, 1890, I have examined the books and accounts of the department up to June 30, 1890, and beyond one or two trifling omissions since rectified, I find everything correct.

My examinations, as you are aware, antedate the biennial report just drafted, as well a

the preceding one; therefore, I am in a position to speak from actual facts and figure The department in its march of improvement has now come down to good systematic work, keeping always in view the doubt check principle; and as a meed of merited praise to the employes, I would add that I consider your books and accounts would company favorably with any other governmental department.

On the seventeenth instant, I addressed a letter to State Controller John P. Dunn, Estasking what balance stood to the credit of the San Francisco Harbor Improvement Fundament on June 30, 1890; also what drafts remained unpaid up to and inclusive of No. 343 (the last that was drawn in June). Inclosed herewith I send you the State Controller's reply wherein he states that, according to his books, the account stood as follows:

June 30, 1890—Balance on hand to credit of San Francisco Harbor Improve-

\$267,630 52 peduct drafts drawn and not presented, Nos. 335, 336, 340, 341, 342, and 343\_\_\_ 14,374 29

Add balance of June cash remitted to State Controller, as per his receipt....

\$253,256 23 19,280 93 \$272,537 16

This sum is 4 cents in excess of your ledger balance.

With regard to the biennial report, now ready for the printer's hands, I would state that I have gone over all the receipts, disbursements, drafts drawn, and other figures connected therewith, and find them strictly correct.

Hoping that the present satisfactory working of your department will be ever maintained, I have the honor to be, gentlemen,

Your obedient servant,

JULIAN B. HARRIES, Accountant.

### CHANGE IN THE SYSTEM OF COLLECTING TOLLS.

On September 26, 1889, the Board passed an order that very materially changed the system of collecting tolls, to take effect on November 1, 1889, prior to which time tolls were paid on merchandise as it passed over the various wharves by teamsters, consignees, owners, and others. The system was an expensive one, as it required a Collector to be stationed at each wharf, each Collector receiving a monthly salary of \$100, fixed by law. The term for which Collectors are appointed, also fixed by law, is four years, and the Board doubted its power to remove a Collector before the expiration of his term, which would not occur before 1891.

By the change in the manner of collecting tolls the Board would be able to dispense with the services of twenty Collectors, thereby decreasing the expense of collecting tolls \$2,000 per month. But, unless the Board had the power to remove a Collector prior to the expiration of his term of office, there would be nothing gained by the contemplated change of system; on the contrary, there would be a decided loss. Therefore, on July 16, 1889, the Board removed a Collector named Ford. and tendered him his salary earned at the date of removal. Ford demanded his salary for the full month, and denied the power of the Board to remove him, and brought an action in the Supreme Court of the State to compel the Board to pay him the sum of \$30, as and for a balance due him on account of his salary as Collector for the month ending July 25, 1890. This brought the question as to the power of the Board in the premises fairly before the Supreme Court of the State. The case was argued by Hon. Jas. G. Maguire, on behalf of the Collector, and by Hon. W. W. Morrow and T. C. Coogan, Esq., on behalf of the Board, and on October 1, 1889, the Court rendered its decision, fully sustaining the position taken by the Board. (The case will be found reported in the 81 Cal. Reports, pages 19 to 37.)

By this system of collecting tolls the owner, agent, manager, consignee, master, or person in command of any vessel must, at the time of her arrival at a wharf, if she has a cargo to discharge, and before her departure, if she has taken a cargo on board, deliver to the Collector at the wharf a full and correct statement of all merchandise to be discharged from or that has been received on board such vessel, and must pay to the Collector the tolls due thereon according to the schedule of rates fixed by the Board.

As soon after the first of November, 1889, as the business of the wharves would permit, the Board removed nineteen more Collector making twenty in all, and thereby reduced the expenses of collecting tolls \$2,000 per month.

After a practical working of the system for the last eight months the Board is satisfied that the change has proved to be a judicious one, for although the revenue collected from tolls during that period is less than during the corresponding period under the former system, yet it is fully accounted for by the fact that on November 21, 1889, the Board abolished all tolls on grain, flour, and mill stuffs passing over the wharve under its jurisdiction, the order taking effect on December 1, 1889, and thereby very materially reducing the revenue from tolls.

## PASSENGER DEPOT AND BELT RAILROAD.

## Seawall and Passenger Depot at Foot of Market Street.

Sub-section 8 (a) will extend from the center line of Clay Street to the north end of Sub-section 8 (b) already built, and will complete the seawall across the important space fronting the passenger ferry slips at the foot of Market Street. This sub-section is about four hundred feet long, and will cost about \$120,000. It is the purpose of the Board to let this section, as soon as it can be done without subjecting the public to the great inconvenience of the change during the rainy season.

The seawall as thus built will serve as the foundation for the west front of a large passenger depot, designed to be about eight hundred feet long and one hundred and fifty feet wide. The east front will rest upon heavy concrete piers about forty feet apart, and costing in the aggregate some \$42,000.

This building is designed to accommodate the passenger traffic reaching the foot of Market Street. It will be two stories high, with a central portion one story higher. The second story will be reached by a steel bridge over East Street, and extending to the south side of Sacrament Street, and connected directly with the upper decks of steamers. The principal materials of construction will be iron, steel, and glass. It is estimated, with the bridge and approaches, to cost about \$504,000.

Upon the commencement of Sub-section 8 (a), it will be necessary to commence the condemnation of a small triangle at the intersection of East and Sacramento Streets. In this connection it is proper to call attention to the fact that no authorization exists for the acquisition of the necessary space for the abutment and steps for the west end of the overhead steel bridge above mentioned, and to the necessity for the enactment of suitable laws giving the Board this power.

Since the laws creating the Board and defining its duties and responsibilities were passed, additional duties have been imposed. The concentration of a vast local and transcontinental passenger traffic at the foot of Market Street, and the need of building a belt railroad around the State's waterfront properties, have imposed obligations upon the Board beyond the limits of their present revenues. There can be not doubt of the advantages to the State at large of the past policy of the Board regarding the absolute ownership and control by the State of all the waterfront property, and the structures thereon. No person not corporation should own any structure whatever upon the State property

nor should such structure, when built by the State, be under the exclusive control of any person or corporation.

And, although the time is at hand when the public need for suitable passenger accommodations at the foot of Market Street is great, and our commercial necessities demand the most complete facilities for rapid handling of freights, no step should be taken which would in any way tend to impair the absolute control by the State of the vast interests of the waterfront. The direct revenues of the Board are sufficient, when wisely expended, for the maintenance and extention of the waterfront and seawall, as originally provided for by law, but not for meeting the additional burdens above mentioned. It is believed that these burdens may be borne without the addition of one dollar of taxation upon the citizens of the State.

The State has now reclaimed from the bay, by the construction of the seawall already built, thirty and one half fifty-vara lots (in a former report this area has been given as thirty-three and one third fifty-vara lots; but since that report, Lot No. 4 has been decided by the Courts to be partly owned by private parties). These are worth at least \$1,500,-000. By the extension of the seawall westwardly to Van Ness Avenue, at a cost of about \$440,000, a large and more valuable area will be reclaimed. The grading of these lots will cost about \$200,000, so that by this extension, at a gross cost of \$640,000, the State will be in the possession of property of a minimum value of \$1,500,000 in addition to that now reclaimed. There is no need of funds for carrying out this work, as its prosecution comes under the regular expenditures of the San Francisco Harbor Improvement Fund, as provided by law. The Board purposes to make this extension of the seawall as rapidly as circumstances will permit, so that in a few years the State lots will aggregate over sixty fifty-vara lots, and a value of at least \$3,000,000.

## The Belt Railroad.

The Belt Railroad is already under construction in the building of the freight ferry slip on Section 4 of the seawall, at the foot of Lombard Street. The Board intends to lay a double track steel railroad (with a third rail for accommodating narrow gauge cars) from this slip both ways, to Powell Street on the west and to Pacific Street on the southeast. The building and equipping of this road will cost about \$95,000. Just west of Lombard Street a sidetrack is designed for making up trains for the slip. No other sidings or depot tracks are provided for. Proper facilities of this kind should be secured by all railroad companies reaching the city, but under no circumstances should such tracks be allowed on the seawall thoroughfare.

The connection of the northern portion of the belt railroad with the system entering at Second Street by ferry from Oakland has been closely considered by the Board. To extend the railroad south of Market Street in the present condition of the front would subject the Board to one of two serious dilemmas—either to sacrifice very important wharves and piers, or to acquire the right of way over costly private property. After the completion of nearly a mile of seawall south of Market Street, these difficulties of this line will be removed, except the complicated crossing of the street railroad termini at the foot of Market Street.

To avoid this delay, and at the same time reap the benefits of a com-

plete belt railroad at an early day, the Chief Engineer of the Board has suggested a road from Section 6 of the seawall down Drumm Street to Main Street, and along Main Street to the waterfront, and thence across the State's properties to the foot of Second Street, thus giving the desired connection.

There can be no doubt of the advantages of this route as compare with the waterfront route across the foot of Market Street, and as the district traversed is entirely devoted to manufacturing and mercantil interests, the property holders would not offer any serious objections to such route, especially when confronted with the disadvantages to which their properties would be subjected should the other route be ultimately adopted. As a surface road (to be utilized only at such hours of the night as may be designated) this road would cost about \$185,000.

The Board is therefore called upon to meet the following expenditure outside those contemplated in the law, yet within the just requirement

of its duties and policy:

First—The passenger depot.  Second—The northern end of the belt railroad.  Third—The connection with the southern portion of the city	\$504,000 0 95,000 0 185,000 0
Total Or in round numbers, \$800,000.	\$784,000 0

To meet this, the Board recommends the authorization of the issuance (as required for the purposes) of 4 per cent bonds to the extent of \$800,000. To provide for the interest and redemption of these bonds it is recommended that the revenue derived from the depot building and the belt railroad be appropriated as a Sinking Fund, to be increased, if necessary, by the rentals from the seawall lots. It will be observed, that for the retirement of these bonds the State can thus see apart the revenue from at least \$3,800,000 worth of the most valuable property on the waterfront of the city.

Respectfully submitted.

WM. D. ENGLISH, CHAS. O. ALEXANDER, W. H. BROWN, State Harbor Commissioners.

RECEIPTS AND DISBURSEMENTS FOR THE TWO FISCAL YEARS ENDING JUNE 30, 1890.

JUNE 30, 10						
RECEIPTS.	1888	-9.	1889	-90.	Total	
Section 1, Seawall Wharf	\$12,30	8 8	9 \$12,33	0 20	\$24,63	 19 09
Section 2, Seawall Wharf	8.78	3 1	5   8,28	354	17,06	
Section 3, Seawall Wharf	.   14,05	1 3	5   10,62	8 68	24,68	30 03
Section 4 Seawall Wharf	1 12 82	4 50	10,42	0 16	23,24	1466
Fishermen's Wharf Union-Street Wharf	2,91	2 00	3,78	7 85	6,69	9985
Union-Street Wharf	14,80	2 3	16,41			
Green-Street Wharf	16,37	600				
Vallejo-Street Wharf	11,27	5 98	5   12,07	4 51	23,35	0 46
Green-Street Wharf Stroadway Wharves Nos, 1 and 2 Broadway Wharf No. 1 Broadway Wharf No. 2 Pacific-Street Wharf	31,86	5 70		4 80	34,59	
Broadway Wharf No. 1	-		15,69	2 63	15,69	2 63
Broadway Whari No. 2		22	13,08	0 02	13,08	
		, ,	$\begin{array}{c c} 21,22 \\ 16,25 \end{array}$	0 00	45,43	
Jackson-Street Wharf Washington-Street Wharf	13,60	5 30	10,20	0 I/	29,86	4 47
Washington-Street Whari	16,02 89,71	1 9U	13,74 84,90	4 ZZ	29,76	
Ferries Mission-Street Wharf No. 1	14.43	75	12.17	7 29	174,61	9 12
		1 10	പ രവ്വ		26,61 38,22	
Howard Street Wharf No. 1	17,429	2 05	15.09		32,53	1 60
Howard Street Whart No. 2	14 991	1 45	13,90	2 71	28,12	2 65
Howard Street Wharf No. 2	13,565	5 00	10,68	7 119	24,25	5 00
Folsom Street Wherves Nos 1 and 2	28 48	7 15	2,43	2 40	30,91	
Mission-Street Wharf No. 1 Howard-Street Wharf No. 1 Howard-Street Wharf No. 2 Howard-Street Wharf No. 3 Folsom-Street Wharf No. 1 Folsom-Street Wharf No. 1 Folsom-Street Wharf No. 2 Harrison and Spear-Street Wharves Harrison-Street Wharf Street Wharf Street Wharf	_ 20,±0	10	10,93	2 10	10,93	
Folsom-Street Wharf No. 2	-		10,986	3 05	10,98	6 05
Harrison and Spear-Street Wharves	41.509	0.5	3,43	5 95	44,94	4 00
Harrison-Street Wharf	12,000	, 00	14,97	7 78	14,97	7 78
				15	7,61	
Spear-Street Wharf			14,75	89	14,75	
Spear-Street Wharf Main-Street Wharf	22,195	00	17.400	50	39,59	
Man-street wharf Beale-Street Wharf Fremont-Street Wharf Third and Berry-Street Wharves Third-Street Wharf Channel-Street Wharf Center-Street Wharf Center-Street Wharf	36.265	70	17,400 26,184	02	62,44	72
Fremont-Street Wharf			7,849	28	7,84	3 28
Third and Berry-Street Wharves	25,737	15	1,955		27,692	
Third-Street Wharf	í		.  9,328	99	9,328	99
Berry-Street Wharf			12,475	75	12,475 12,341	75
Channel-Street Wharf	6,348	85	5,992	45	12,341	30
Center-Street Wharf	3,000	00	3,000		6,000	00
		w	0,000		12,000	
Pacific Mail Steamship Company Southern Pacific Company (rent) Southern Pacific Company (tolls) United States Barge Office. Space for scales.	15,000	00	15,000	00	30,000	
Southern Pacific Company (rent)	19,200 50,283	00	19,200 48,206	00	38,400	
Southern Pacific Company (tolls)	50,283	69	48,206	09	98,489	
United States Barge Office.	240		240		480	
space for scales	1,260	00	1,342		2,602	
Space for lumber	678	5U 95	$1,785 \\ 23,131$	40	2,463	75
Release old material (present repairs)	15,240	99	1,931	80	36,375 3,482	00
Sala of old material (nile driving)	692	70	1,581	81	2,205	51
Sole of old material (Dredger No. 2)	100	áň	1,001	91	100	97
Sole of old material (true "Anasha")	5	25				25
Sale of old material (tug "Gov Irwin")	3	93				93
Sale of old material (seawall account)	762	00			762	
Dredging (Dredger No. 1)	160	ŏŏ	400	00	560	ññ
Dredging (Dredger No. 2)		••	520		520	
Pacific Mail Steamship Company (tolls)	10	00				00
Sale of merchandise left on wharves	13	60	31	00		60
Received for use of Ferry Railroad Track	<b>-</b>		100		100	
Overcharge in gas bills refunded			103	58	103	58
Received from vessels—damages to wharves	417	00	454	34	871	34
Space for lumber Revenue from seawall lots Bale of old material (urgent repairs). Sale of old material (pile driving) Sale of old material (bredger No. 2). Sale of old material (tug "Anasha"). Sale of old material (tug "Gov. Irwin") Sale of old material (seawall account). Dredging (Dredger No. 1). Dredging (Dredger No. 2). Pacific Mail Steamship Company (tolls). Sale of merchandise left on wharves. Received for use of Ferry Railroad Track Overcharge in gas bills refunded Received from vessels—damages to wharves.					<del></del>	
	\$619,537	<b>54</b> .	\$599,105	58	\$1,218,643	12
Amount drawn from San Francisco Harbor Im- provement Fund				ا ۵۰		
provement Fund	247,137	61	311,633	96	558,771	57
- Marian	#000 OFF		0010 500	<u> </u>		
Totals	\$866,675	19	\$910,739	04	\$1,777,414	ф9
	l		<u> </u>			

## RECEIPTS AND DISBURSEMENTS-Continued.

DISBURSEMENTS.	1888-89.	1889-90.	Total.
Salaries of Commissioners, Secretaries, and Clerks.	<b>\$</b> 16,352 45	\$17,047 40	\$33,399
Salaries of Chief Engineer and Assistants	6,600 00	6,875 00	13,475
Salaries of Chief Wharfinger and Assistant	4,800 00	4,770 00	9,570 0
Salary of Attorney	2,400 00	2,400 00	4,800 0
Salaries of Wharfingers	31.410 60	31,274 20	62,684
Salaries of Collectors	40,651 60	26,169 30	66,820
Salaries of Watchmen	2,700 00	2,111 55	4,811 6
Expense account (rent, printing, stationery, keeping horses, lighting wharves, sprinkling roadways,			
horses, lighting wharves, sprinkling roadways,			
etc.)	15,290 09	20,836 33	36,126
Urgent repairs Repairs, including lumber (by contract)	41,473 59	50,128 00	91,601
Repairs, including lumber (by contract)	58,202 71	68,885 58	127,088 2
Pile driving Cleaning wharves	66,691 13	65,475 05	132,166
Cleaning wharves	15,812 60	16,177 58	31,990 [
Wharf offices and furniture Legal expenses	135 58	312 67	448 2
Legal expenses	660 05	660 85	1,320 9
Fire account	4,941 55	4,988 65	9,930 2
Dredger No. 1	14,659 31	14,444 51	29,103 8
Tue "Anasha"	24,526 90   10,381 94	15,019 82	39,546 7
Dredger No. 2 Tug "Anasha" Tug "Gov. Irwin"	12,856 81	9,394 62	19,776
Construction account	64,850 83	12,729 96 116,261 88	25,586
Segwall account	99,765 47	97,632 20	181,112 7 197,397 6
Improving seawall lots (including paying sewering	99,100 41	91,052 20	197,097 0
and curbing)	1,820 77	17.787 28	19,608 0
Seawall account Improving seawall lots (including paving, sewering, and curbing) Dockage refunded Tolls refunded	1,175 45	1,384 15	2,559
Tolls refunded	933 50	821 15	1,754
Wharfage refunded	339 72	277 75	617
Rent refunded	39 00	70 50	109
Higherman's wharf (res water cleaning market etc.)	207 60	386 80	774
Profit and loss (damages to vessels)	10 78	268 56	279 3
Profit and loss (damages to vessels) Oregon Railway and Navigation Co., for loss of merchandise by falling of wharf, pursuant to Act of		200 00	2,00
chandise by falling of wharf, pursuant to Act of	ļ		
Lærigigthire	5 4 H M 5 4 M 5		5,000
Gregory Valerro, for loss of horse, pursuant to Act of	3,300 00		3,000
Legislature	200 00		200 0
•	\$545,070 03	\$604,591 34	\$1,149,661
Amount remitted to San Francisco Harbor Improve-	ľ. <i>'</i>		4
ment Fund	1 004 005 40	306,148 20	627,753
	321,605 12	000,140 20	
	321,605 12	J	
Totals	\$866,675 15	\$910,739 54	

## STATEMENT OF THE SAN FRANCISCO HARBOR IMPROVEMENT FUND, FOR THE TWO FISCAL YEARS ENDING JUNE 80, 1890.

	FOR THE TWO FISCAL YEARS ENDING JUNE 30, 1890.	
1888.	Dr.	
July 14. July 80. July 81. Aug. 4.	To amount remitted by Commissioners for July	24 204 00
Aug. 28. Sept. 4.	To amount remitted by Commissioners for August \$12,000 00   To amount remitted by Commissioners for August   14,082 13	26,394 08 26,082 <b>1</b> 3
Sept. 28_ Sept. 29_ Oct. 4_	To amount remitted by Commissioners for September 5,500 00 5,500 amount remitted by Commissioners for September 8,589 79	,
Oct. 29_ Nov. 3_ Nov. 5_	To amount remitted by Commissioners for October \$15,000 00 To amount remitted by Commissioners for October \$4,000 00 To amount remitted by Commissioners for October 8,527 40	24,089 79
1	To amount remitted by Commissioners for November \$9,000 00 To amount remitted by Commissioners for November 20,371 31	7,527 40
1889.		9,371 31
Jan. 25	To amount remitted by Commissioners for January \$7,000 00 16,146 07	8,365 20 3,146 07
April 3.	To amount remitted by Commissioners for February 2	8,587 06 0,836 36
May 28_ June 4_	To amount remitted by Commissioners for May \$18,000 00   To amount remitted by Commissioners for May 11,173 58	22,782 24 29,173 58
Sept. 4. Oct. 3. Nov. 5. Dec. 3.	To amount remitted by Commissioners for June To amount remitted by Commissioners for July To amount remitted by Commissioners for August To amount remitted by Commissioners for September	25,175 58 27,249 90 22,977 01 28,751 19 23,639 68 27,161 42
1890,	20 simulation of commissioners for november 2 11,607 to	23,597 66
Jan. 4. Feb. 1. Feb. 4.	To amount remitted by Commissioners for December	29,576 43
Mar. 5_ Mar. 26_	To amount remitted by Commissioners for February To amount remitted by Commissioners for March \$17,000 00 To amount remitted by Commissioners for March 10,107 03	28,821 38 23,177 28
May 3. June 5. July 3.	To amount remitted by Commissioners for April To amount remitted by Commissioners for May To amount remitted by Commissioners for June	27,107 03 29,423 72 22,634 47 19,280 93
	Total amount remitted	\$627,753 32
	Balance in San Francisco Harbor Improvement Fund July 1, 1888	203,555 37
		\$831,308 69
E.		

STATEMENT OF THE SAN FRANCISCO HARBOR IMPROVEMENT FUND-Continued.

			Cr.	
Date.	ORDER.	No.	On Account of.	Aı
1888.			`	
July 3. July 9.	J. C. Smith Geo. D. Nagle and J.	191	Furnishing lumber	\$
July 17	S. Antonelle S. F. Bridge Co	192 193	Constructing seawall Repiling Secs. 1, 2, 3, and 4, Seawall	
July 19. July 26. July 26. July 26. July 26.		195 196 197	Wharf Repiling Washington-Street Pier Furnishing piles Furnishing lumber Pier at foot of Harrison Street Repiling Berry-Street Wharf.	1
Aug. 2. Aug. 7.	S. F. Contracting Co. B. McMahon & Son	199	Pier and shed thereon at foot of Lombard Street	1
Aug. 9			Repiling Secs. 1, 2, 3, and 4, Seawall Wharf	
-	S. F. Bridge Co	į	Removing wharves in line of Section 7, seawall, and building and remov- ing temporary connecting roadways for Jackson and Washington-Street Piers	
Sept. 4. Sept. 20.	N. Bichard S. F. Contracting Co. S. F. Bridge Co.	205	Piers Furnishing piles Constucting seawall Repiling Secs. 1, 2, 3, and 4, Seawall Wharf	
Sept. 20. Sept. 24. Sept. 24. Sept. 24. Oct. 3. Oct. 23.	J. C. Smith D. H. Bibb N. Bichard L. H. Pierson S. F. Contracting Co. S. F. Bridge Co.	207 208 209	Wharf Furnishing lumber Furnishing piles Furnishing piles Furnishing piles Constructing seawall Repiling Secs. 1, 2, 3, and 4, Seawall Wharf	
Oct. 25. Oct. 25. Nov. 1. Nov. 27. Dec. 4. Dec. 11. Dec. 18.	D. H. Bibb. L. H. Pierson. S. F. Contracting Co. L. H. Pierson. S. F. Contracting Co. D. H. Bibb. J. W. McDonald.	212 213 214 215 216 217 218	Wharf Furnishing piles Furnishing lumber Constructing seawall Furnishing lumber Constructing seawall Furnishing piles Paving, curbing, etc., on seawall	
1889.				
Jan. 3. Jan. 7. Jan. 15. Feb. 4. Feb. 4. Feb. 7.	S. F. Contracting Co L. H. Pierson. D. H. Bibb. S. F. Contracting Co L. H. Pierson. J. W. McDonald.	219 220 221 222 223 224	Constructing seawall Furnishing lumber Furnishing piles Constructing seawall Furnishing lumber Paving East Street, between Market and Howard	1
Feb. 12. Feb. 12. Mar. 1. Mar. 1. Mar. 5. Mar. 5. Mar. 13.	B. McMahon & Son B. McMahon & Sou J. S. Antonelle S. F. Contracting Co D. H. Bibb S. F. Contracting Co L. H. Pierson J. W. McDonald	225 227 228 229 230 231 232 233	Rebuilding portions of Union-St. Pier Rebuilding portions of Green-St. Pier Constructing seawall. Constructing seawall. Furnishing piles. Pier at foot of Fremont Street. Furnishing lumber. Paving East Street, between Market and Howard.	
	D. H. Bibb L. H. Pierson S. F. Bridge Co	234 235 236	and Howard. Furnishing piles. Furnishing lumber. Removing wharves in line of Section 7, seawall, and building and removing temporary connecting roadways for Jackson and Washington-Street Piers.	
- 1	B. McMahon & Son	237	Pier etc.	
Mar. 28.	3. McMahon & Son	238	Rebuilding portions of Union-Street Pier	-

STATEMENT OF THE SAN FRANCISCO HARBOR IMPROVEMENT FUND-Continued.

Date.	Order.	No.	On Account of.	Amount.
. 00	B. McMahon & Son	239	Sewer at foot of Washington Street	\$1,182 50
Mar. 28- Mar. 28-	Jas. J. O'Connor	240	Sewer in Bay Street, between Dupont	φ1,102 OO
			and Kearny Constructing seawall Constructing seawall	775 52
April 2.	S. F. Contracting Co. J. S. Antonelle S. F. Contracting Co. J. W. McDonald	241	Constructing seawall	7,238 60
April 2.	J. S. Antonelle	. 242	Constructing seawall	510 54
April 9-	S. F. Contracting Co.	$\begin{array}{c} 243 \\ 244 \end{array}$	Pier at foot of Fremont Street	736 27
April 9-	J. W. McDonaid	277	Extra filling—paving East Street, be- tween Market and Howard	892 50
April 25.	D. H. Bibb	245	Furnishing piles Boiler for dredger Constructing seawall Constructing seawall Coating piles with Key West Pile Armor	2.132 95
April 25. May 2.	Pretorious & Lemmer.	246	Boiler for dredger	2.789 00
May 2-	S. F. Contracting Co.	247	Constructing seawall	7,639 34
May 2-	J. S. Antonelle	248 249	Coating piles with Koy West Pile Ar-	408 75
May 2	M. Connen	210	mor	1,802 33
May 7.	S. F. Contracting Co	250	Pier at foot of Fremont Street	490 85
May 9.	S. F. Contracting Co	251	Constructing seawall	2,362 50
May 9_	J. W. McDonald	252	Paving on seawall, opposite Merchant	000 01
May 9_	Paraffine Paint Co	253	Protecting piles	900 81 775 25
May 9- May 23-	D. H. Bibb	254	Protecting piles Furnishing piles Furnishing piles Furnishing piles	1,425 39
May 24.	Oregon R. R. & N. Co.	255	Loss of merchandise by falling of Spear-Street Wharf, pursuant to	. , 30
	-		Spear-Street Wharf, pursuant to	F 000 00
	M Commoll	256	Act of Legislature Coating piles with Key West Pile Ar-	5,000 00
May 28_	M. Connell	200	mor	6,898 76
May 31_	S. F. Contracting Co.	257	Constructing seawall	5.956 10
Jane 4	J. S. Antonelle	258	Constructing seawall	3.582 60
June 4	J. S. Antonelle S. F. Contracting Co	259	mor Constructing seawall Constructing seawall Pier at foot of Fremont Street	6,871 83
June 24. July 2.	D. H. Bibb	260 261	Piles furnished Coating piles with Key West Pile Ar-	2,217 51
July 2	M. Connen	201	mor	10,060 66
July 2.	S. F. Bridge Co.	262	Repiling Broadway Wharf No. 2	3.586 70
July 2.	S. F. Contracting Co	263	Pier at foot of Fremont Street	6.135 56
auty Z	J. S. Antonelle	264	Constructing seawall Coating piles	5,800 94
July 11	Ventura Asphalt Co B. McMahon & Son	265 266	Formy slip between Teekson and	1,344 30
ANTA TO	b. McManon & Son	200	Ferry slip between Jackson and Washington-Street Piers	2,500 00
July 16	B. McMahon & Son	267	Connecting wharves along Brannan	•
July 24.	D II Bibb	268	Street, etc.	2,730 00 1,618 88
	D. H. Bibb Peter Ahern	269	Furnishing piles Building on Section 7, seawall, opposite Washingtou-Street Wharf	1,010 00
			site Washingtou-Street Wharf	554 63
July 30_	B. McMahon & Son	270	Connecting wharves along Brannan!	
Aug. 2	G T G G.	071	Street, etc	3,412 50
402. 21	S. F. Contracting Co J. S. Antonelle	$\begin{array}{c c} 271 \\ 272 \end{array}$	Constructing seawall	3,412 50 16,017 19 9,724 50
	B. McMahon & Son	273	Addition to ferry slip between Jack-	0,,21 00
			son and Washington-Street Piers	2,080 47
Aug. 8_	B. McMahon & Son	274	Connecting wharves along Brannan	9.00= =0
Aug. 20.	B. McMahon & Son	275	Street, etc. Connecting wharves along Brannan	3,607 50
1889.	D. MCManon & Bull	2.0	Street, etc.	500 00
	,			200 00
#ug. 20.	Peter Ahern	276	Two buildings on Washington-Street	4 000 5=
Sent 9		277	Constructing seawell	1,029 37
	J. S. Antonelle	278	Constructing seawall	10.653 32
SPECIT. A I	S. F. Contracting Co. J. S. Antonelle Alexander Hay	279	Pier Constructing seawall Constructing seawall Float and gang planks for boat landing Funnishing piles	1,029 37 27,491 98 10,653 32 1,495 00
TYPE 17 1	D. H. Bibb	280	Furnishing piles	1,232 84
Sept. 24.	A. E. Buckman	281	Sewering, paving, etc., at intersection	600 00
Sept. 24.	C. B. Williams	282	Redwood and pipe sewer near the foot	692 90
	ì		Redwood and pipe sewer near the foot of Washington Street	1,442 40
Oct 3	J. S. Antonelle	283	Constructing seawall	3,701 25 145 00
rrout Q∣	J. S. Antonelle S. F. Contracting Co. D. H. Bibb	284	Constructing secural	145 00
0ci 10.	D. H. Bibb	285 286	Furnishing piles Furnishing lumber Furnishing lumber Coating piles with Vulcan Pile Armor	2,452 44 625 34
CL 15	Golden Gate Lum. Co Golden Gate Lum. Co	286	Furnishing lumber	2,345 88
201 15	M. Connell	288	Coating piles with Vulcan Pile Armor	4,739 20
25.	Golden Gate Lum. Co.	289	Furnishing lumber	1,057 8
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-	

REPORT OF STATE BOARD OF HARBOR COMMISSIONERS.

STATEMENT OF THE SAN FRANCISCO HARBOR IMPROVEMENT FUND—Continued.

Date	). 	Order.	No.	On Account of.	Aı
Nov.	2_	A. E. Buckman	290	Paving, curbing, etc., on Battery St.,	-
Nov.	2.	J. W. McDonald	291	between Greenwich and East Sts	\$
Nor.				Paving, curbing, etc., on Drumm St., bet. Broadway and Pacific Sts., etc.	
Nov. : Nov. :		Golden Gate Lum. Co.	292 293	Furnishing lumber	
lov.			294	Constructing seawall Coating piles with Vulcan Pile Armor	
Vov.		S. F. Bridge Co.	295	Repiling Folsom-Street Pier No. 2	1
lov.	29.	S. F. Bridge Co. D. H. Bibb	296	Furnishing piles	4
Tov. : Dec.	29. 3.	John Hackett and	297	Furnishing piles Furnishing lumber	j
		John Sherry	298	Paving portions of Bay, Battery, and Davis Sts., and seawall thoroughfare	4
ec.	27	J. S. Antonelle D. H. Bibb	299 300	Constructing seawall Furnishing piles	
1890	1	D. 11. Blob	300	Furnishing piles	
an.	2.	J. S. Antonelle	301	Constructing seawall	1
an.	2-	M. Connell	302	Coating piles with Vulcan Pile Armor	2
an. an.	2. 7.	B. McMahon & Son John Hackett and	303	Repiling Folsom-Street Pier No. 1	£
<b></b>		John Sherry	304	Paving portions of Bay, Battery, and Davis Sts., and seawall thoroughfare	3
an.	7.	Golden Gate Lum. Co.	305	Furnishing lumber	2
an.	28_	B. McMahon & Son	306	Furnishing lumber Rebuilding Ferry Slip No. 1 and Clay-	
an.	28	D H Bibb	20#	Street Pier. Furnishing piles Coating piles with Vulcan Pile Armor	5
an.		D. H. Bibb M. Connell	307 308	Costing piles with Vulcan Pile 4	1
	30.	Golden Gate Lum. Co.	309	Furnishing lumber	2 2
eb.	4.	J. S. Antonelle	310	Furnishing lumber Constructing seawall	5
eb.	4_			•	
	- 1	John Sherry	311	Paving portions of Bay, Battery, and Davis Sts., and seawall thoroughfare	•
'eb.	6.	M. Connell	312	Coating piles with Vulcan Pile Armor.	3
'eb. 1	11.		313	Sewering, etc., in Montgomery Street.	1
eb. 1		B. McMahon & Son	314	Repiling Folsom-Street Pier No. 1	3
lar. 1890	- 1	J. S. Antonelle	315	Constructing seawall	7
		Talm Track (1 )			
Iar.	4-	John Hackett and	316	Powing portions of Day Datter and	
	- {	John Sherry	910	Paving portions of Bay, Battery, and Davis Sts., and seawall thoroughfare	4
ſar.	4.	B. McMahon & Son	317	Rebuilding Ferry Slip No. 1 and Clay- Street Pier	9.
ſar.	4-	D. H. Bibb	318	rurusning nues	3,
lar.	6.1	Golden Gate Lum. Co. 1	319	Furnishing lumber	2
18f. 2	44-	D. H. Bibb J. S. Antonelle	320	Furnishing lumber Furnishing piles Constructing seawall	2,
.pr. .pr.	3-	John Hackett and	321	Constructing seawall	6,
-r-·	٧-	John Sherry	322	Paying portions of Bay, Battery, and	
pr.	3.	John Hackett and		119Vis Sts and soomall thorough for a	3,
-	Ì	John Sherry	323	Paving on Broadway, Vallejo Street, and seawall thoroughfare	
	ا ,	Coldon Cata Taras	20.	and seawall thoroughfare	
.pr. .pr. 1		Golden Gate Lum. Co B. McMahon & Son	324 325	Rebuilding Ferry Slip No. 1 and Clay-	2,
nr. s	14	D. H. Bibb	326	Street Fier	3, 1,
pr. 2	29.	Golden Gate Lum. Co.	327	Furnishing piles	1, 5,
[ay	2.	J. S. Antonelle	328	Furnishing lumber Constructing seawall	2,
[ay	2.	John Hackett and	Ì		-,
		John Sherry	329	Paving portions of Bay, Battery, and Davis Sts., and seawall thoroughfare	7
lay 1	3_	Darby Laydon	330	Replling Howard-Street Pier No. 3	1
lay 1	5-	S. F. Bridge Co.	331	Rebuilding sides of Mission-St. Pier	9
lay 2 lay 2	7	Alexander Hay D. H. Bibb	332 333	Float and gangway for boat landing	ī
lay 2	9.1	Darby Laydon	334	Furnishing piles	$\frac{1}{2}$
[ay 2	9.1	B. McMahon & Son	335	Repiling Vallejo-Street Wharf Shed on Clay-Street Pier	2
lay 2	9.	B. McMahon & Son	336	Rebuilding Ferry Slip No. 1 and Clay-	1
, _				Street Pier	

## STATEMENT OF THE SAN FRANCISCO HARBOR IMPROVEMENT FUND-Continued.

Date.	ORDER.	No.	On Account of.	Amount.
June 3. June 11. June 30.	J. S. Antonelle	337 338 339 340 341 342 343	Furnishing Iumber  Paving on Broadway, Vallejo Street, and seawall thoroughfare	5,295 64 1,706 40

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FISCAL	RECEIPTS.	EXPENSES.	Pe	CONSTRUCTION		DREDGING.				
YEAR.	From Dockage,		rcenta; Year	Building Wharves,	Seawall,	All Dredging up to 1874 was	Purchase of Dredgers, Scows. and	Miscellane-	Remitted State	Drawn from State Treas-
ganization of the Commission.		Fees), Wharfinger, Collectors, Fuel, Rent, Printing, Stationery, etc.	ge per	Sheds, Bulk- heads, etc., and Repairs on the same.		Contract. Since by Com- missioners.	Repairs.		Treasurer.	urer.
1863-4	\$117.848 28	\$25.354.84	21.50	\$67.599				\$976.25		
1864-5	177,393 66	32,439 10	18.28	80,875		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;				
1865-6	183,716 80	35,531 42	19.02	19,066		\$44,106 50				
1866-7	336,409 36	41,233 95	11.95	88,525	888	10,300 00		330 62		
186/-8	24,304,28	55,531 92	18.87	82,791	38	41,021 00	1			
1869-70	267,630 56	54,100.77	15.11 21.65	35,779 85	165,899,68	92,355 W			180,693,37	510,215 27
1870-1	148,917 03	37,782 65	25.37	53,693	3	35,258 00	1			
1871–2	195,031 14	61,006 70	31.28	28,146		53,944 40				
1872-3	190,330 47	69,858 63	36.50	78,776		32,293 20		1		
1873-4	265,709-06	77,938 05	29.33	104,175	2,321 85	42,478 56	\$34,070 00	6,344 01		
1874-5	373,541 72	68,617 14	18.37	209,540		33,835 71	3,725 00	824 99		
1870-6	372,078 74	70 9/16 9/1	17.73	162,000		96,802 70	15 954 45	565 47		
1877_8	448 518 89	24, 296, 79	1000	110,698	1 202 28	20,000	10,004	1 885 00		
1878-9	466.420 55	97,162 63	20.83	164,560	107,091 87	60,454 68	3,480	200.00		
1879-80	427,687 56	100,667 57	23.53	141,022		51,675 28	1,173 50			
1880-1	. 419,437 49	102,746 75	24.49	199,972		51,462 52				
1881-2	455,005 64	104,255 15	22.91	86,102		48,743 45				
1882-3	436,030 54	107,883 69	24.74	179,089		51,457 50	5,247 00			
1882	001,243,20	115,231 30	20.00	173,997		60,780 40				
1884-5	500,702 10	116,194 14	3.5	248,607		52,258 80				
1999-1	485,851 04	117,093 22	24.32	197,612		46,675 40				
1886-7	95,720	128,584 90	3.35	153,529		78,046 99	1 1 1 1 1 1 1 1 1			
1887-8	080,152 51	138,983 05	8.5	234,855		54,082 70				
1889-90	599,105 58	131,262,56	25.91	301,083	115 419 48	51,588 91		5,257,91		
						2004				
Totals	\$10,107,489 46	\$2,241,849 33		\$3,817,933 86	\$2,355,851 29	\$1,179,597 00	\$145,587 58	\$94,133 28	\$5,853,066 35	\$5,580,529 23
Balance in treasury	treasurv									070 697 10

	,	STATEMENT	TO THE TOTAL	-0.00					
FISCAL YEAR ENDING-	Salary of Employés.	Repairs.	Coal.	Ship Chan- dlery and Water.	Miscellaneous, including Docking Dredgers, Tugs, and Scows.	Total.	No. Yards Dredged,	Worked. No. Hours.	Cost per Cubic Yard. Cents.
1875 1876 1877 1878 1879 1881 1883 1885 1886 1886 1889 1889 1890	\$11,982 94 11,982 94 11,188 99 11,188 99 11,188 99 12,582 96 12,588 96 12,588 96 12,588 96 12,787 96 12,787 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 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12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,888 96 12,88	\$10,382 99 7,583 48 14,371 48 14,371 48 10,196 99 10,196 63 10,196 63 11,610 58 11,610 58 11,610 58 11,024 76 10,264 87 10,264 87 10,264 87 10,264 87 10,264 87 10,264 87 10,264 87 10,264 87	\$6.88.89 00 00 00 00 00 00 00 00 00 00 00 00 00	\$1,386 1,680 1,582 1,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 10,582 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#### BALANCE SHEET.

#### From November 4, 1863, to June 30, 1890.

RECEIPTS.		
From dockage, tolls, wharfage, rents, etc.		\$10,107,489
DISBURSEMENTS.		
Salaries of Commissioners, Secretaries, Engineers, Attorneys, Wharfingers, and Collectors, law fees, fuel, rent, stationery, etc.  Constructing and repairing wharves, sheds, etc.  Construction of seawall and improving seawall lots  Purchase of and constructing dredgers, tugs, and scows  Dredging (cost of)  Payroll of crew of fireboat  Suspense account (defalcations of John S. Gray)  Miscellaneous (loss of merchandise by breaking down of wharves, and damages to vessels and other property).  Cash in the treasury	\$2,241,849 33 3,817,933 86 2,355,851 29 145,587 58 1,179,597 00 46,655 31 23,308 10	
Dr. CASH.		10,107,489 46
To amount remitted to the State Treasurer		\$5,853,066 35
Cr. CASH.		
By amount drawn from State Treasurer By cash on hand in the treasury	\$5,580,529 23 272,537 12	5,853,066 %

## REPORT OF DENNIS SPENCER, ATTORNEY.

To the honorable Board of State Harbor Commissioners of the State of California:

GENTLEMEN: I herewith present my report as attorney of your honorable Board, showing what has transpired in relation to litigation in charge of your attorney during the two fiscal years ending June 30, 1890.

ACTIONS PENDING AT THE DATE OF LAST REPORT.

The Pacific Transfer Company vs. Wm. Blanding et al. In Superior Court, Department No. 6, No. 23360.

J. E. McElrath, Esq., attorney for plaintiff.

Action to recover money paid under protest by plaintiff to defendants

for wharfage.

1879, October 24, complaint filed. 1880, December 23, answer of William Blanding and A. M. Burns filed. 1881, January 10, answer of Bruce B. Lee filed. 1887, August 29, supplemental answer of William Blanding filed. August 29, action tried before Hon. Wm. T. Wallace, who, on January 4, 1888, ordered judgment to be entered in favor of defendants. 1888, June 6, findings filed. June 7, notice of decision served and filed. June 12, cost bill served and filed. June 13, judgment entered for defendants; notice of same served and filed. June 19, notice that plaintiff intends to move for a new trial received. September 8, plaintiff's proposed statement on motion for a new trial received. September 13, defendants' proposed amendments served. September 19, notice that plaintiff rejects defendants' proposed amendments received. 1889, February 1, statement on motion for new trial settled and allowed, and filed. April 5, motion for new trial denied. April 6, notice of denial of motion for new trial served. April 9, notice of denial of motion for new trial filed.

No appeal having been taken by plaintiff from the judgment or order denying new trial, said judgment and order are now final in favor of

defendants, and case closed.

Samuel Soulé et al. vs. Benjamin Holliday, Jr. In Superior Court, Department No. 4, No. 2631.

W. H. L. Barnes, Esq., attorney for defendant. Action to recover \$395 87 for dockage and toll.

On January 16, 1884, judgment was rendered in favor of plaintiffs for \$395 87, with interest thereon from April 11, 1874, and for costs amounting to \$11 50. This judgment remains unsatisfied.

The People of the State of California vs. Thomas Huson et al. In Supreme Court, No. 7207.

REPORT OF STATE BOARD OF HARBOR COMMISSIONERS.

William M. Pierson, Esq., attorney for defendants.

Action to recover \$1,045 10 for deficiency in accounts of Huson as

Wharfinger.

1878, May 6, complaint filed. August 15, answer filed. September 24, judgment for defendants. November 10, plaintiffs moved for a new trial, which was on May 5, 1880, denied, and on May 21, plaintiffs appealed to the Supreme Court. Pending the appeal, one of the defendants, E. J. Lewis, died in Tehama County. No administration has ever been taken out on his estate. September 28, action dismissed as to E. J. Lewis in Supreme Court. October 17, cause submitted in Supreme Court. 1889, January 25, cause reversed and remanded for a new trial September 24, on new trial, judgment rendered for plaintiff for \$558 70 and \$10 costs, and findings waived. October 9, execution delivered to Sheriff. October 31, execution returned unsatisfied.

The People of the State of California vs. Robert G. Byxbee et al. In Superior Court, Department No. 8, No. 6251.

J. B. Lamar, Esq., attorney for defendants.

Action to recover \$460 78 for deficiency in accounts of West Evans as

Wharfinger.

1882, February 10, complaint filed. Since the date of last report the following proceedings were had: 1888, August 20, default of A. F. Collins entered and judgment ordered for plaintiff for \$460 78, and interest from March 1, 1881, and costs, \$23 50. August 24, 1888, judgment entered August 25, cost bill filed.

The People ex rel. The Board of State Harbor Commissioners vs. Thomas Quirk, J. C. Green, and Donald McLennan. In Superior Court, Department No. 3, No. 10491.

Messrs. W. H. L. Barnes and Ed. S. Salomon, attorneys for defendants. Action brought to recover from Thomas F. Quirk \$14,149 81 for deficiency in his accounts as Wharfinger, and \$5,000 each from J. C. Green and Donald McLennan, as sureties on his official bond.

1883, August 22, complaint filed. This action was at issue as to defendants Green and McLennan. Since the issue was joined as to these defendants, both have died. No administration has yet been taken out upon the estate of J. C. Green. Special letters of administration have been issued to F. P. McLennan upon the estate of Donald McLennan 1889, September 16, cause off calendar.

The People ex rel. The Board of State Harbor Commissioners vs. Josiah F. Fairfield, Charles J. Hendry, and W. S. Ray. In Superior Court, Department No. 2, No. 10938.

Messrs. Walter H. Levy and W. H. H. Hart, attorneys for defendants Action to recover \$12,672 25 from Josiah F. Fairfield for deficiencies in his accounts as Wharfinger, and \$5,000 each from C. J. Hendry and W. S. Ray, as sureties on his official bond.

1883, October 19, complaint filed. Since the date of the last report this case has been tried and judgment rendered for plaintiff for \$1,911 95, and costs. 1889, May 24, motion for new trial denied. June 10, notice of appeal received. The case is now pending in the Supreme

Court on appeal.

The People ex rel. The Board of State Harbor Commissioners vs. H. M. La Rue and A. S. Greenlaw. In Superior Court, Department No. 4, No. 10996.

Joseph F. Wendell, Esq., attorney for defendants.

Action to recover \$5,000 each from H. M. La Rue and A. S. Greenlaw, as sureties upon the official bond of William M. Haynie, late Wharfinger,

for deficiencies in his accounts.

1883, October 26, complaint filed. Since the date of the last report the following proceedings were had: 1889, February 6, motion for new trial granted unless plaintiff remits from judgment \$336 30 for tolls and suffers judgment so modified for \$463 50. February 13, item for tolls remitted in open Court. February 15, motion for new trial denied. 1889, April 13, appeal to Supreme Court taken by defendants. The case is now pending in the Supreme Court.

The People of the State of California ex rel. William Irwin et al. vs. John C. Merrill, as executor of the last will of Martha B. Harris, deceased. In Superior Court, Department No. 4, No. 15708.

C. K. Bonestell, Esq., attorney for defendant.

Action to recover \$312 dockage due from bark "D. C. Murray," and penalties.

1885, August 10, complaint filed and summons issued. This case is in the same condition as at date of last report.

The People ex rel. Frank McCoppin et al. vs. Louisa Berryman, H. B. Berryman, K. Winter, and John Doe. In Superior Court, Department No. 2, No. 18290.

William M. Pierson, Esq., attorney for defendants.

Action to compel defendants to remove an unlawful obstruction alleged to have been placed by them on the inner half of East Street, near Jackson Street.

1886, August 17, complaint filed. October 16, demurrer received. December 3, demurrer overruled. December 30, answer received. Action now at issue and ready for trial on behalf of plaintiffs.

The People of the State of California ex rel. Frank McCoppin et al. v. Robert Dunsmuir. In Superior Court, Department No. 2, No. 18978.

Messrs. Wilson & Wilson, attorneys for defendant.

Action to compel defendant to remove an unlawful obstruction alleged to have been placed by him on the inner half of East Street, between

Pacific and Jackson Streets.

1886, October 30, complaint filed and summons issued. 1887, April 20, demurrer received. April 22, demurrer argued and submitted. July 1, demurrer overruled. September 23, answer received. This action is now at issue and ready for trial on behalf of plaintiffs.

W. H. Norton vs. W. C. Whitehead, administrator of the Estate of David Finley, deceased, A. C. Paulsell, John H. Wise, and William D. English, constituting the Board of State Harbor Commissioners. In Superior Court, Department No. 1, No. 19873.

Messrs. H. M. McGill and Whittemore & Sears, attorneys for plaintiff, and W. C. Burnett and W. H. H. Hart, attorneys for defendant W. C.

Whitehead, administrator.

Action to recover judgment against the estate of David Finley, deceased, for money loaned deceased, and to restrain the Board from drawing its warrant in favor of the administrator for work done in the performance of a contract entered into between the Board and David

Finley.

1887, March 15, complaint filed and temporary injunction issued and served upon the Board. April 28, demurrer overruled. May 13, amended complaint filed. May 20, answer of Board served and filed. May 30 and 31, action tried and submitted on briefs. November 28, judgment ordered in favor of the plaintiff. December 30, notice of decision and findings received. 1888, January 9, notice that Board intends to move for a new trial served and filed. May 31, statement on motion for a new trial settled and filed. July 27, motion for new trial denied. August 25, notice of appeal served. October 4, transcript on appeal filed in the Supreme Court. 1890, June 2, judgment and order affirmed by Supreme Court. The judgment in this case has been paid and satisfied and case closed.

Nancy Payne and Squire P. Dewey vs. William D. English, John H. Wise, and A. C. Paulsell, members of and constituting the Board of State Harbor Commissioners. In Superior Court, Department No. 6, No. 20614.

Messrs. Cope & Boyd, attorneys for plaintiffs.

Action to restrain the Board from erecting a wharf in front of plaint iff's property on the northerly line of Channel Street, between Third and Fourth Streets.

Since the date of the last report this case has been appealed to the Supreme Court, and the judgment there reversed and a new trial ordered. The case is now set for trial.

People of the State of California ex rel. William D. English et al. vs. Vames Kerwin, Martin Kruse, et al. In Superior Court, Department No. 6, No. 21614.

Quint, Esq., attorney for defendants.

tion to compel defendants to remove an unlawful obstruction alleged to ve been placed by them in Montgomery Street, near the southeast of Montgomery and Chestnut Streets, and also from seawall lot

Note the date of the last report this case has been tried and a judgmi rendered in favor of plaintiffs, that defendants remove building freewall lot No. 7, with \$1 damages and costs, and in favor of defendant or that part of building on Montgomery Street. The defendants has appealed from this judgment and filed their transcript in the Sume Court, where the case is now pending on appeal.

The eople ex rel. W. D. English et al. vs. M. R. Roberts. In Superior Court, Department No. 4, No. 21668.

Isrs. Rosenbaum & Sheeline, attorneys for defendant.

tion to recover \$305 from defendant for dockage of the lighter "Contra Co" and barge "Edison." The defendant claimed that the rule of the Bot imposing these charges for dockage was in conflict with Sections \$10 of Article I of the Federal Constitution.

see the date of the last report the defendant has appealed this case to Supreme Court, where it has been argued and submitted in determent and ordered heard in bank. It now stands submitted in bank briefs.

NDITION OF ACTIONS COMMENCED SINCE DATE OF LAST REPORT.

Stepn Ford vs. The Board of Harbor Commissioners of the State of California. In the Supreme Court, No. 13374.

Alication for writ of mandate to compel the Board to pay salary of Sphen Ford.

Jes G. Maguire, attorney for plaintiff.

The case involved the question of the power of the Board to remove a control from office before the expiration of the time of his appointment without cause affecting his official character or competency.

Ticase was argued and submitted, and the Court, on October 1, 1889, denit the writ and decided in favor of the Board. A petition for a reheing was subsequently denied.

John Hackett vs. The State of California. In Superior Court, Department 6, No. 27567.

on by plaintiff under authority of special statute of March 15, authorizing him as assignee of W. D. English et al., to institute against the State for damages for breach of contract by Harbor

## BIEŃNIAL REPORT

F THE

## OARD OF STATE HARBOR COMMISSIONERS

FOR THE

BAY OF SAN DIEGO.

OCTOBER 1, 1890.



## SACRAMENTO:

STATE OFFICE, ::::: J. D. YOUNG, SUPT. STATE PRINTING. 1890.

## BIENNIAL REPORT

OF THE

## OARD OF STATE HARBOR COMMISSIONERS

FOR THE

BAY OF SAN DIEGO.

OCTOBER 1, 1890.



## SACRAMENTO:

TATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

## REPORT.

Hon. R. W. WATERMAN, Governor of the State of California:

Pursuant to the provisions of Section 2592 of the Political Code, the bard of State Harbor Commissioners for the Bay of San Diego submits is report of its transactions from the eighteenth day of March, 1889, the first day of October, 1890.

Upon the organization of the Board, it was found that no funds had sen provided for carrying on the waterfront improvements and other ork directed in the Act creating the Board, nor for the payment of the

alaries of the Commissioners or their appointed officers.

The only income received by the Board has been derived from occuants of lands of the State under control of the Board. This income s been small—not enough to pay office rent and incidental expenses nd the members of the Board have been compelled to draw upon their rivate funds and credit in order to carry out the more urgent provisons of the Act.

Following is a full report of all moneys received and disbursed:

#### RECEIPTS (FROM BENTS).

	hoo o	9.40	20
	889—September	\$40	
	October	67	50
	November	60	00
	December		50
j	800-January	40	50
	February		50
	March		50
	A mail		50
	April	. =:	
	Мау		00
	June		50
	July		00
	August	. Z1	50
- '-	September	. 40	00
	September Amounts advanced by the Board	. 163	• 15
Š,	Total	\$725	65
		<b>.</b>	
į.			
2	DISBURSEMENTS.		
á	May 24—California Printing Company, stationery	en	50
1	May 24—Camorina Frinting Company, stationery	фо	90
á	Aug. 19—Wells, Fargo & Co., expressage	_	
3	sept. 9—Payot, Upham & Co., seal	7	50
	Sept. 9—Payot, Upham & Co., seal Oct. 15—M. G. Wheeler, Chief Engineer, services	40	00
1	Vet. 22—H. G. Williams, signs	- 8	00
. 3	Oct. 31—Nicholas Ulrich, map Nov. 6—Chadbourne Furniture Company, office furniture	2	00
-2	Nov. 6—Chadbourne Furniture Company, office furniture	67	50
1	Nov. 9—H. G. Williams, sign	2	00
1	Nov. 8—Matthews & Co. office furniture	6	00
3	Nov. 9—H. G. Williams, sign.  Nov. 8—Matthews & Co., office furniture.  Nov. 22—San Diego "Union" Company, advertising.  Nov. 22—San Diego "Sun" Company, advertising.	5	00
	Nov 22 San Diago "Sun" Company advertising	Ř	00
4	Nov. 23—H. B. McAuliff, signs  Dec. 1—Williams, Hannahs & Co., office fittings	4	50
1	Dec 1 Williams Hannah & Co office Strings	1	00
. 1	Dec. 1—Williams, Hannahs & Co., office fittings  Dec. 4—J. C. Sprigg, Jr., rent of offices  Dec. 5—G. W. Marston, office fittings	95	5 00
.4	Dec. 4—J. C. Sprigg, Jr., rent of offices.	90	
	Dec. 5-G. W. Marston, office fittings	12	80
1	Dec. 4—J. C. Sprigg, Jr., rent of offices Dec. 5—G. W. Marston, office fittings Dec. 5—F. N. Hamilton, office fittings Jan. 8—J. C. Sprigg, Jr., rent of offices	1	50
1	Jan. 8-J. C. Sprigg, Jr., rent of offices. Jan. 8-M. G. Wheeler, Chief Engineer, services	25	00
(4		28	30
	Jan. 9—John C. Daly, stationery	1	l 50
	W 100 O C 6 C - 120 - C 1 1		7 50

9—John C. Daly, stationery
9—Gray & Co., office furniture

1890-Feb. 5-Pauline Kingston, rent of offices	\$2
Feb. 26—John C. Daly, stationery	<b>y-</b> -
Feb. 6-John C. Monteith, stationery	
Feb. 8-M. G. Wheeler, Chief Engineer, services	10
Feb. 18—Wells, Fargo & Co., expressage	/
Feb. 18—Wells, Fargo & Co., expressage Mar. 5—Wells, Fargo & Co., expressage	
Mar. 12—Pauline Kingston, rent of offices	2
Mar 15_M G Wheeler Chief Engineer gervices	7
Mar. 25—E. Reinberg, clerical work	
Mar. 25—Secretary of State, certified copy of Act	1
Mar. 25—E. Reinberg, clerical work.  Mar. 25—Secretary of State, certified copy of Act  Mar. 26—Cyclone Auction Company, office furniture.	2
ADTH 9-PRIMING KINGSTON, TENT OF OTHICES	"
April17—Louis Dampf, framing maps	
May 1—Dodge & Burbeck, stationery	'
May 16—Louis Dampf, mounting maps May 20—Pauline Kingston, rent of offices	
May 20—Pauline Kingston, rent of offices	2
July 2—Pauline Kingston, rent of offices	5
July 16—G. B. Hensley, map	
July 16—Gould, Hutton & Co., stationery	1
July 16—Wells, Fargo & Co., expressage	2
July 16—Wells, Fargo & Co., expressage  Aug. 25—Pauline Kingston, rent of offices  Aug. 25—Pauline Kingston, rent of offices	2
Sept. 2—Dodge & Burbeck, stationery	
Sept. 5—M, A, Wertheimer & Co., stationery Sept. 6—Pauline Kingston, rent of offices	2
Sept. 6—Pauline Kingston, rent of offices.	2
Sept. 13—Wells, Fargo & Co., expressage	0
Sept. 30—Pauline Kingston, rent of offices	2
(Trade)	e70
Total	\$72

#### ORGANIZATION.

Upon the organization of the Board, Clark Alberti, having be appointed for the four-year term, was made President, and J. H. Babour appointed Acting Secretary. Mr. Barbour has continued to pe form the duties of that position up to the present time, there being funds at the disposal of the Board for the payment of the salary of Secretary.

On May 25, 1889, Harry L. Titus was appointed Attorney.

On June 26, 1889, M. G. Wheeler was appointed Chief Engineer.

On the same date it was ordered that the Board hold regular session every Tuesday.

On July 3, 1889, Nestor A. Young was appointed Chief Wharfing His salary was fixed at \$150 per month, and official bond at \$10,000.

## SEAL.

On August 27, 1889, the Board adopted a seal, having a central desirepresenting the bay of San Diego with shipping in the foreground, with Point Loma and the entrance to the harbor in the distance, and a grounding circle containing the words, "Board of State Harbor Commissioners. Bay of San Diego."

#### MAPS.

On August 27, 1889, the Board officially adopted a set of maps, p pared by the Chief Engineer, showing the waterfront (shore) line of city of San Diego, from the foot of Ivy Street to the foot of Twen second Street.

#### SEAWALL.

According to Section 2588 of the Political Code, the Board of St Harbor Commissioners for the Bay of San Diego were directed, with one year from the passage of the Act, to employ two consulting of

engineers to act with the Engineer of the Board in locating a line for a harbor embankment or seawall.

In January, 1890, at the request of this Board, Col. George H. Mendell and Lieut.-Col. W. H. H. Benyaurd, Corps of Engineers, U. S. A., San Francisco, consented to act with the Chief Engineer of the Board in making a survey, and selecting and locating a line for a harbor embankment and seawall. On March 3, 1890, their report was submitted to the Board.

On March 17, 1890, a special meeting of the Board was held for the purpose of considering the report of the engineers. In addition to the three Commissioners, there were present, Governor R. W. Waterman, Douglas Gunn, Mayor of the city of San Diego, and S. S. Johnston, President of the Board of Trustees of National City.

After a careful examination and consideration of the report it was adopted by a unanimous vote, and a copy of the map accompanying and forming a part of the report, showing the location of the seawall and pier-head lines, was ordered filed in the office of the Auditor and Recorder of San Diego County.

A copy of the map is hereto annexed. The red lines thereon indicate the seawall line so far as established; the blue lines show the pierhead line, beyond which piers or wharves shall not be extended into the channel.

The seawall line is laid at an average distance of two hundred feet from shore. The pier-head line follows as nearly as possible the line of twenty-four feet depth of water at low tide, which is the average depth maintained over the bar.

## DESCRIPTION OF LINES.

Seawall Line, San Diego.—Starting from a point on the prolongation of the southerly side of Thorn Street, and three hundred feet westward from the southwest corner of California Street; thence in a straight line parallel to California Street to a point on the prolongation of south side M Palm Street; thence to a point on the prolongation of south side of Hawthorn Street, and four hundred feet west of California Street; thence parallel to Atlantic Street to a point on the prolongation of north side of edar Street, and two hundred feet from Atlantic Street; thence continubg parallel to Atlantic Street to a point on the prolongation of north de of H Street; thence in a curve of three hundred feet radius, with Inter at northeast corner of H and Atlantic Streets to the prolongation east side of Atlantic Street; thence parallel to H Street to a point on the colongation of west side of Arctic Street; thence to a point on westerly de of Columbia Street prolonged, four hundred and ten feet from southest corner of Columbia and H Streets; thence parallel to the westerly to of the right of way of the California Southern Railway Company It wo hundred feet from the same, to the prolongation of the northerly e of South Twentieth Street; thence to the prolongation of northsterly side of South Twenty-first Street and one thousand and twenty from northeasterly corner of South Twenty-first Street and Pierce enue; thence parallel to Pierce Avenue to a point of prolongation of southerly line of South Twenty-fourth Street; thence to a point on prolongation of northwesterly side of South Twenty-seventh Street, t hundred and ten feet from easterly side of Pierce Avenue; thence

to prolongation of southerly side of South Twenty-eighth Street, fix hundred and fifty feet from the southeast corner of Pierce Avenue and South Twenty-eighth Street; thence to a point on prolongation of easter side of Twenty-eighth Street, four hundred and forty feet from the south east corner of Twenty-eighth Street and Colton Avenue; thence to and distant four hundred and fifty feet from Pierce Avenue; then between San Diego and National City.

of Prospect Street, at a distance of one thousand and thirty feet from front, and its constantly extending commerce, the exclusive control the northerly side of Second Street; thence to a point on the prolong should always remain in the State. Accordingly, a bill similar to that tion of the easterly side of Orange Avenue and four hundred and fill governing the harbor of San Francisco was prepared, introduced, and feet from the northerly side of First Street; thence to a point on pr longation of westerly side of K Street, two hundred and fifty feet from With a few amendments, made necessary by the haste used in its original northerly side of First Street.

Note.—The above described lines are united thus: Where the angle of intersection does not exceed 12 degrees, by a 2-degree curve; from 12 degrees to 24 degrees, by 4-degree curve; and from 24 degrees to 40 degrees, by a 6-degree curve.

Pier-head Line, San Diego.—Beginning at a point on the prolongation of northern line of Ivy Street six thousand eight hundred and fifty fe from the western line of California Street; thence to a point on the pr eighty feet from the south line of H Street; thence to a point on the prolongation of the northwestern line of South Twenty-first Street, to thousand and ninety feet from the northeastern line of Pierce Avenu thence to a point on the prolongation of the southeastern line of Southeastern line of Twenty-eighth Street, one thousand three hundred and ninety feet from hundred feet from the northeastern line of Oliver Avenue; thence to point on the prolongation of division line between San Diego a National City, three thousand three hundred and fifty feet from its interest in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t section with the prolongation of northeastern line of Oliver Avenue.

Pier-head Line, Coronado.—Beginning at a point on the prolongati of the southeastern line of Prospect Street, one thousand one hund and seventy-five feet from the northeastern line of Second Street; the to a point on the prolongation of the southeastern line of Orange Aven six hundred and fifty feet from the northeastern line of First Stre thence to a point on the prolongation of the northwestern line of Street, one thousand three hundred feet from the northeastern line First Street.

The lines, as above described, and as shown on the accompany map, are identical with those adopted by the Board of United Sta Engineer Officers appointed to establish the harbor lines of San Di Harbor and adjacent waters.

#### NECESSITY FOR SEAWALL.

Two years ago the growing need of better harbor facilities resulted in the selection, by the Chamber of Commerce, the Real Estate Exchange, and the City Council, of a Harbor Committee of thirteen to consider point on the prolongation of south side of South Thirty-third Street, fill the situation. Propositions had been made to the municipal governhundred and fifty feet from the west side of Avenue M; thence to ment by private individuals and corporations, at various times, for the point on a prolongation of a line midway between Thor and Una Street construction of a bulkhead along the city front, but the committee, after carefully considering the matter, did not deem it advisable to recommend parallel to Pierce Avenue to the prolongation of the boundary limitat a franchise be granted to any person, company, or corporation which would give them control of any considerable portion of the waterfront; Seawall Line, Coronado.—Starting from a point on the prolongation but that, in view of the importance and value of the harbor and waterbecame a law at the twenty-eighth session of the California Legislature. preparation, the Act will afford comprehensive provisions for the control, care, and improvement of the harbor.

#### CONSTRUCTION OF SEAWALL.

Very favorable natural conditions exist for the substantial and economical construction of a seawall and thoroughfare of the kind contemplated. The bottom of the bay along the course of the located line is longation of the south line of C Street three thousand seven hundred and comparatively level, the average rise and fall of the tide is and forty feet from the west line of Atlantic Street; thence to a point but five feet, and there is no injury from rough seas to be guarded the prolongation of the west line of Atlantic Street one thousand against. The plans under consideration by the Board contemplate a seventy feet from the south line of H Street; thence to a point on the wall of stone twelve feet in height, twenty-four feet in width at the prolongation of east line of Fifth Street four thousand one hundred at base, and six feet in width at the top; the outer face, to the thickness of ix feet, being carefully laid with large rocks of not less than five hunthed pounds weight each, and with a one half to one slope; the inner ide to be composed of smaller rock, and having a one to one slope, the pace between the wall and the shore to be solidly filled with earth and paved thoroughfare created, which would supply valuable and much the northeastern line of Pierce Avenue; thence to a point on the projected facilities for the business of the harbor. Reliable estimates, made longation of the northwestern line of Rigel Street, two thousand for the direction of the Board, place the cost of the seawall and ander the direction of the Board, place the cost of the seawall and proughfare complete at sixty-five thousand dollars (\$65,000) per secon of one thousand feet.

> In designating the sections, the foot of H Street has been selected as e initial point, that being the natural center of the city's maritime siness. The sections extending northward are lettered in regular order, d those to the south are numbered. This affords a brief and distinctsystem of nomenclature, susceptible of all probable expansion withrequiring modification.

#### WHARVES.

With one exception, the wharves in use are in bad condition; most of m are quite old and cannot long survive the attacks of the teredo. by are all owned and operated by private individuals and corporas, under franchises granted by the municipal authorities before the te assumed control of the harbor. Most of these franchises were ated or renewed during the period of 1886 to 1889, usually for twenty

years each. No system has been observed in the construction of thes wharves; they ramble in all directions, and several of them extended beyond the pier-head line, causing an unsightly and dangerous condition. With the construction of the seawall and thoroughfares well under way it would be possible for the Board to adopt a uniform system of piers new ones to be built, from time to time, as they are needed.

#### GENERAL CONDITION.

Since their appointment, March 18, 1889, the members of the Boar have exercised a constant supervision over the harbor. A full and complete map of the entire waterfront of the harbor of San Diego has been approved and adopted, and a certified copy filed in the office of the Auditor and Recorder of San Diego County.

Through the efforts of the Board an improvement has been made in the method of disposing of the city's garbage. The dumping of oil can and other injurious articles in the vicinity of the channel and the barbas been stopped, and suitable points outside the harbor have been designated for the depositing of all refuse.

The general condition of the harbor, with the exception noted in con

nection with the wharves, is good.

The Board takes occasion to acknowledge its obligations to Col. G. Mendell and Lieut.-Col. W. H. H. Benyaurd, Corps of Engineers, U. S. A., for their valuable and timely services in connection with the establishment of the seawall line, and suggests that it be empowered to make proper compensation to them.

#### RECOMMENDATION.

That the sum of one hundred and ninety-five thousand dollars (\$195 000) be appropriated for the construction of seawall and thoroughfar and piers, at points on the city front where they are most urgently needed.

Respectfully submitted.

CLARK ALBERTI, W. W. STEWART, J. H. BARBOUR,

Board of State Harbor Commissioners for the Bay of San Dieg

OCTOBER 1, 1890.

#### REPORT OF HARRY L. TITUS, ATTORNEY.

To the honorable Board of State Harbor Commissioners for the Bay of San Diego:

Gentlemen: I respectfully submit the following report of the condi-Since their appointment, March 18, 1889, the members of the Board tion of the cases in the Superior Court of the County of San Diego in ave exercised a constant supervision over the harbor. A full and com which your Board is or was interested, to wit:

The People, etc., vs. John Doe. No. 4042, Department Three.

This action was brought by plaintiffs for possession of property known as "D-Street Bath House."

Complaint filed December 10, 1889. Summons served December 10, 1889. Demurrer to complaint filed January 4, 1890. On February 1, 1890, the defendant admitted authority of the Board over the property, and the action was thereupon dismissed.

The People, etc., vs. T. J. Higgins. Two cases: No. 4474, Department Two; No. 4475, Department One.

These actions involve the alleged conveyances of tide lands by the city f San Diego.

Complaint filed April 11, 1890. Demurrer to complaint filed May 21, 1890. On May 21, 1890, stipulations were entered into whereby it was greed that they should be determined at the same time as the cases of A. Klauber et al. vs. Board et al. (see below).

A. Klauber et al. vs. Board of Harbor Commissioners et al. Two cases: No. 4563, Department Three; No. 4564, Department One.

These actions are based on alleged conveyances of certain tide lands by the State.

Complaint filed April 19, 1890. Demurrer to complaint filed May 7, 1890. Court to hear arguments therein in October.

People, etc. vs. City of San Diego. No. 4973, Department Two.

This action was brought to compel the City of San Diego to remove garbage wharf from the foot of H Street.

Complaint filed June 30, 1890. Summons served June 30, 1890.

Manurer to complaint filed July 11, 1890. Demurrer overruled by

wrt September 5, 1890. Answer filed October 3, 1890.

HARRY L. TITUS.

orney for the Board of State Harbor Commissioners for the Bay of San Diego.

Стовек 1, 1890.

## FIFTH ANNUAL REPORT

OF THE

# BOARD OF DENTAL EXAMINERS

OF THE

## STATE OF CALIFORNIA.



#### SACRAMENTO:

STATE OFFICE::: J. D. YOUNG, SUPT. STATE PRINTING. 1889.

#### REPORT.

To his Excellency R. W. WATERMAN, Governor of the State of California: Sir: The Board of Dental Examiners of the State of California submit the following as their fifth annual report of its proceedings, together with an account of all moneys received and disbursed, in compliance with the requirements of that certain Act of the Legislature, entitled "An Act to insure the better education of practitioners of dental surgery, and to regulate the practice of dentistry in the State of California," approved March 12, 1885, a copy of which is hereunto annexed. Since issuing the last report, the Board has held two meetings. On April 24, 1889, the Governor, R. W. Waterman, appointed on the Board E. L. Townsend, of Los Angeles, vice H. J. Plomteaux, term expired. At the meeting held August 20, 1889, seven candidates appeared for examination, all of whom successfully passed. At this meeting the election of officers was held. Dr. J. J. Birge, of San Francisco, was elected President and Dr. W. F. Griswold, of San Francisco, was elected Secretary. The following are the present officers and members of the Board: Dr. J. Birge, President San Francisco.
W. J. Younger, M.D. San Francisco.
S. E. Knowles, M.D., D.D.S. San Francisco. Is. Crawford Los Angeles.
L. Townsend, D.D.S. Los Angeles. Thos. Morffew, D.D.S. San Francisco.
W. F. Griswold, Secretary San Francisco. During the past year two persons have been registered, twelve diplomas have been indorsed, and seven candidates have received certificates on examination. A list of all whose names have been registered, and of all whose diplomas have been indorsed as satisfactory to the Board, and of all who have received certificates by examination of the Board, is hereto annexed. The following is an account of all money received and disbursed by the Board since the last report: RECEIPTS. For registration, \$1 for each—four persons \_\_\_\_\_\_\_\$4 00 Received for indorsement of diploma, \$10 for each applicant—twelve applicants 120 00
From examination, \$10 for each applicant—eleven applicants 110 00 DISBURSEMENTS. ecessary clerical expenses 35 00 ent of hall, one year 105 00 

Nance in hand of Secretary ...... \$169 40

All persons who are now practicing dentistry in this State, and who has not received a certificate from this Board in pursuance of the Act me tioned, are violating the law and are subject to arrest and a fine of \$50 \$200, or imprisonment for six months in the county jail for each and ever offense. It will be necessary for all persons who may hereafter desire engage in the practice of dentistry in this State to secure a certificate from this Board, upon a diploma from a reputable dental college, or after example of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of the college of t ination in dental surgery, as required by the Act of March 12, 1885. examining applicants for certificates to practice dentistry, the Board wi examine in the branches of anatomy, physiology, pathology, histolog hygiene, materia medica, therapeutics, chemistry, metallurgy, operation dentistry, prosthetic dentistry, and dental jurisprudence. All examin tions must be in writing, and the applicant must receive a general average of 75 per cent to entitle him to a certificate. Clinical operations in oper tive or prosthetic dentistry shall be optional with the Board of Examine The regular meeting for the examination of candidates will be held July 10, 1890.

It seems to be popularly supposed that the Board of Examiners shall prosecute all persons violating the law. This is not the case; but it is the duty of every dentist to see that the law is enforced, and it is the duty the prosecuting attorney of each county to prosecute every person violating the law, on the receipt of information of such violation and the necessar

evidence to establish the fact.

#### STEP TO BE TAKEN TO PROSECUTE.

Positive evidence of the violation of the law should first be obtained This, with a formal information and a list of witnesses, should be handed to the prosecuting attorney, who will then be in duty bound to prosecut

The attention of licensees is called to the fact that they are required have their licenses recorded with the County Clerk of the county in which such persons may reside; it requires no action of the Board to work a fe feiture of the license under Section 8 of the law: the fact of failure to ha it recorded, within six months from date of issue, subjects licensee to the penalty for neglect.

We recommend that Section 6 of the Dental Law be amended, so the the informer of violations of the Act, "in cases of conviction," shall receive

one half of the fine imposed.

The Board is more than ever impressed with the importance of legisl tion of this character, and have greater confidence that the judicion administration of the law under which they act must redound to benefit of the community.

All of which is respectfully submitted. Board of Dental Examiners

the State of California.

J. J. BIRGE. President

W. F. GRISWOLD. Secretary.

OCTOBER 15, 1889.

#### AN ACT

To Insure the Better Education of Practitioners of Dental Surgery, and to Regulate the Practice of Dentistry in the State of California.

#### [Approved March 12, 1885.]

The People of the State of California, represented in Senate and Assembly, do enact as follows: SECTION 1. It shall be unlawful for any person, who is not at the time of the passage of this Act engaged in the practice of dentistry in this State, to commence such practice

unless he or she shall have obtained a certificate, as hereinafter provided.

Sec. 2. A Board of Examiners, to consist of seven practicing dentists, is hereby cresec. 2. A Board of Examiners, to consist of seven practicing defitists, is nerely created, whose duty it shall be to carry out the purposes and enforce the provisions of this Act. The members of said Board shall be appointed by the Governor from the dental profession of the State at large. The term for which the members of said Board shall hold their office shall be four years, except that two of the members of the Board first to be appointed under this Act shall hold their office for the term of one year, two for the term of two years, two for the term of three years, and one for the term of four years, respectively, and until their successors shall be duly appointed and qualified. In case of a vacancy occurring in said Board, such vacancy shall be filled by the Governor, in conformity with this section. formity with this section.

SEC. 3. Said Board shall choose one of its members President, and one the Secretary thereof, and it shall meet at least once in each year, and as much oftener and at such times and places as it may deem necessary. A majority of said Board shall, at all times, constitute a quorum, and the proceedings thereof shall, at all reasonable times, be open

SEC. 4. Within six months from the time this Act takes effect, it shall be the duty of every person who is now engaged in the practice of dentistry in this State to cause his or her name and residence, or place of business, to be registered with said Board of Examiners, who shall keep a book for that purpose. The statement of every such person shall be verified under oath before a Notary Public or Justice of the Peace, in such manner as may be prescribed by the Board of Examiners. Every person who shall so register with said Board as a practitioner of dentistry, shall receive a certificate to that effect, and may continue practice as such without incurring any of the liabilities or penalties provided in this Act, and shall pay to the Board of Examiners for each registration the fee of one dollar. It shall be the duty of the Board of Examiners to forward to the County Clerk of each county in the State a certified list of the names of all persons residing in his county who have registered in accordance with the provisions of this Act, and it shall be the duty of all County Clerks to register such names in a book to be kept for that

Sec. 5. Any and all persons, who shall so desire, may appear before the Board at any of its regular meetings and be examined with reference to their knowledge and skill in dental surgery; and if the examination of any such person or persons shall prove satisfactory to said Board, the Board of Examiners shall issue to such persons as they shall find to possess the requisite qualifications a certificate to that effect, in accordance with the provisions of this Act. Said Board shall also indorse as satisfactory diplomas from any reputable dental college, when satisfied of the character of such institution, upon the holder furnishing evidence satisfactory to the Board of his or her right to the same, and shall issue certificates to that effect within ten days thereafter. All certificates issued by said Board shall be signed by its officers, and such certificates shall be prima facie evidence of the right of the holder to practice dentistry in the State of California.

SEC. 6. Any person who shall violate any of the provisions of this Act shall be deemed guilty of a misdemeanor, and, upon conviction, may be fined not less than fifty dollars nor more than two hundred dollars, or confined six months in the county jail, for each and every offense. All fines recovered under this Act shall be paid into the Common School Bund of the county in which such conviction takes place.

SEC. 7. In order to provide the means for carrying out and maintaining the provisions of this Act, the said Board of Examiners shall charge each person applying to or appearing before them for examination for a certificate of qualifications, a fee of ten dollars, which fee shall be in no case returned; and out of the funds coming into the possession of the Board from the fees so charged, and penalties received under the provisions of this Act, all legitimate and necessary expenses incurred in attending the meetings of said Board shall be paid; and no part of the expenses of the Board shall ever be paid out of the State Treasury. All moneys received in excess of expenses above provided for, shall be beld by the Secretary of said Board, as a special fund for meeting the expenses of said Board, and carrying out the provisions of this Act, he giving such bonds as the Board shall from time to time direct; and said Board shall make an annual report of its pro-Coolings to the Governor by December first of each year, together with an account of all moneys received and disbursed by them, pursuant to this Act.

SEC. 8. Any person who shall receive a certificate from said Board to practice dentistry, all cause his or her certificate to be registered with the County Clerk of the county in hich such person may reside, and the County Clerk shall charge for registering such difficates a fee of one dollar. Any failure, neglect, or refusal on the part of any person

holding such certificate to register the same with the County Clerk as above directed, to a period of six months, shall work a forfeiture of the certificate, and no certificate, who once forfeited, shall be restored, except upon the payment to said Board of twenty-fit dollars, as a penalty of such neglect, failure, or refusal.

SEC. 9. Any person who shall knowingly or falsely claim, or pretend to have or hold certificate of license, diploma, or degree, granted by any society organized under appursuant to the provisions of this Act, or who shall falsely, and with intent to deceive the public, claim or pretend to be a graduate from any incorporated dental college, shall deemed guilty of a misdemeanor, and shall be liable to the same penalty as provided section six.

SEC. 10. Nothing in this Act shall be so construed as to prohibit any practicing the

SEC. 10. Nothing in this Act shall be so construed as to prohibit any practicing physician from extracting teeth.

SEC. 11. This Act shall take effect immediately.

### OFFICIAL REGISTER

OF DENTISTS HOLDING CERTIFICATES FROM THE BOARD OF DENTAL EXAMINERS IN THE STATE OF CALIFORNIA.

#### ALAMEDA COUNTY.

	TABLEDA COUNTI.	
Ε	Seales, C. H	Oakland.
F	ills. Albert V. (diploma indorsed)	_Oakland.
Ŧ	Relfills E. K	Oakland.
î	Burnett, E. K.	Ookland
t	Junales IV	Oakland.
Ţ	Brooks, W. E	. Oakianu.
ŀ	явор, М. Е	Alameda.
I	Bates, C. P	. Berkeley.
Τ.	Sarradas Tr C	Loondro
F	Genard, Geo.* (diploma indorsed)	ivermore.
4	Bernard, Geo.* (diploma indorsed) I Jole, R. E.	Oakland.
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٠,	Cool, R. H	-Oakland.
- (	Ornwall, A.	Oakland.
-{	Cool, G. W	_Oakland.
1	Dauziger, G. A.	Oakland.
ī	Dimmick, J.	Oakland
1	Dunn, R. K.	Oakland
1	VIIII, D. R.	Oakiano.
	Edwards, B. F.	
4	Gilman, S. M.	Oakland.
٠ (	Garcia, M. JSar.	ı Leandro.
3	Halsey, I. S.	Oakland.
1	Hall, T. W	Oakland
i	Hutton, J. A. D.	Borkelov
-	Howards A. T. D.	Ookland
	Hempstead, J. E	Oakiand.
4	Hackett, S. A.	. Oakland.
-	Knowles, S. E.	. Alameda.
- 2	Knowles, Wm. A	. Alameda.
3	Kreichbaum, G. H.	Oakland.
- 3	Koehler, F.	Sunol.
	Vanwarthy I. Sar	Loandro
-	Ione C.S.	Ookland
	Lane, C. S.  Lee, E. M.*  Luce, G. J.  Lane, Frederic James (diploma indorsed)  Meek, R. W.	Oakianu.
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	Lane, Frederic James (diploma indorsed)	Oakland.
	Meek, R. W.	Oakland.
	MOTTIES. A. II.	LIAKIANA.
•	Morris, T. H.	Oakland.
	Marriman A F	Oakland
. :	Merriman, A. F., Jr.  Moulton, H. G. (examined by Board)  Petton, L. D.	Oakland
	Menitani, A. F. J. F.	Oakiand.
	mounding H. G. (examined by Board)	Oakiand.
	Petton, L. D.	Oakland.
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	Rabe, J.	Oakland.
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	Simmons, W. H. Schmidt, G. L	Oakland
	Sobmidt C. T.	Oakland
	Only on A C	Oakland.
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	saxe, Frederick J. (diploma indorsed)	Oakland.
	Savage, S. L.	Livermore.
	Tate, S. P., Jr	Oakland.
	Titcomb. C. B.	_Oakland.
	Timerman, E. C. (diploma indorsed)	Oakland
	Wilson O F	Ookland
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	Walle, Ch. T. T. T. T. T. T. T. T. T. T. T. T. T.	Oakiand.
	Schmidt, G. L. Schumer, A. C. Saxe, Frederick J. (diploma indorsed) Savage, S. L. Tate, S. P., Jr. Titcomb, C. B. Timerman, E. C. (diploma indorsed) Wilson, O. F. Waltz, G. W. Walker, Chas. Henry (examined by Board)	Oakland.
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#### AMADOR COUNTY.

Grav. John	Ione.
Gray, John	Sutter Creek
LaDue, W. K.	Plymouth
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BUTTE COUNTY.	Harlan, C. N.* Los Angeles.
Crum, T. A	Hubbell, A. B. Los Angeles
Norman, George H	Hollingsworth, W. W. Los Angeles. Hollingsworth, J. W. Los Angeles.
Read, W. S.	Havs. A. P. (diploma indorsed)
Stewart. Robert (diploma indorsed)	Hurtt, J. M. (examined by Board)
Vanankin, J. R.	Tanes, R. K
Ward, S. T	Knepper, G. (examined by Board)
Wasley, D. W	Lowder, W. D. (examined by Board)
gg	McCoy, John C. Orange.
COLUSA COUNTY.	Millard, G. A
Ciley, J. LLittle Sto	Marrie R W (diplome indersed)
Pirkey, M. Willo	Menges, M. A. (diploma indorsed)
Smith, Frank Z	Townsend, E. L. (diploma indorsed)Los Angeles.
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CONTRA COSTA COUNTY.	Parker, C. H. (examined by Board)
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McCabe, EdBrentwo	Stephens, Frank E. Los Angeles.
Moore, J. S	Stephens, C. Los Angeles.
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CALAYERAS COUNTY.	Shoemaker, R. H. San Gabriel.
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Smith, C. D. Angels Car Turner, Peter T. Murph	
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EL DORADO COUNTY.	Todd, Baxter Los Angeles. Todd, Robert A. (diploma indorsed) Los Angeles.
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wark, charles L Fracery	
The manual Country	White, J. M. Los Angeles. Wells, L. W. Los Angeles.
FRESNO COUNTY.	T - A 1
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Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M.  Hutchins, J. M.  Redmond, J. J.  Lakeport.  Middletown.  Lassen County.
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Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  LASSEN COUNTY.  Leonard, J. G. Susanville.  MABIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Ukiah. Fare John Westport.
Earl, George W. (diploma indorsed) Sein Hunsaker, A. L. Fress Hendricks, H. T. Kingsbu Marcoux, Henry Frederick (diploma indorsed) Fress Frather, W. J. Fress Humboldt County.  Beverton, D. H. Eurel Ingersall, A. E. Eurel Johnston, Robert (diploma indorsed) Fernda O'Connor, D. L. Blocksbu Ray, C. B. Area Thompson, R. P. Fernda Weldon, J. A. Eurel Weldon, E. J. Eurel Weldon, E. J. Eurel Kern County.  Kern County.  Bonham, J. F. Bakersfiel Badgley, A. (examined by Board) Bakersfiel	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MARIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Mendocino County.  Card, Ira D. Westport. Higgins C. K. Fort Brage.
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MARIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. J. Alturas.  Mendocino County.  Card, Ira D. Westport. Higgins, C. K. Fort Bragg. Hofiman, M. Ukiah.
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MABIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Ukiah. Fare, John Westport. Higgins, C. K. Fort Bragg. Hoffman, M. Ukiah. Holmes, C. A. Mendocino City.
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Leonard, J. G. Susanville.  MARIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Ukiah. Fare, John Westport. Higgins, C. K. Fort Bragg. Hofiman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah.  Wish
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  LASSEN COUNTY.  Leonard, J. G. Susanville.  MABIN COUNTY.  Thomas, H. B. San Rafael.  MODOC COUNTY.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  MENDOCINO COUNTY.  Card, Ira D. Ukiah. Fare, John Westport. Higgins, C. K. Fort Bragg. Hoffman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Hiram H.
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MABIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Ukiah. Fare, John Westport. Higgins, C. K. Fort Bragg. Hoffman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah.
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MABIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Ukiah. Fare, John Westport. Higgins, C. K. Fort Bragg. Hoffman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah.
Earl, George W. (diploma indorsed) Sein Hunsaker, A. L. Fress Hendricks, H. T. Kingsbu Marcoux, Henry Frederick (diploma indorsed) Fress Fress Fress Humbold County.  Beverton, D. H. Eurel Ingersall, A. E. Eurel Johnston, Robert (diploma indorsed) Fernda O'Connor, D. L. Blocksbu Ray, C. B. Arca Thompson, R. P. Fernda Weldon, J. A. Eurel Weldon, E. J. Eurel Weldon, E. J. Eurel Kern County.  Kern County. Bakersfiel Bakersfiel Bakersfiel Badgley, A. (examined by Board) Bakersfiel Baldwin, C. V. Los Angele Burgess, R. F. Santa An Bourne, Robert R. (diploma indorsed) Los Angele Crawford, J. S. Los Angele Crawford, J. S. Los Angele Crawford, J. S. Los Angele Crawford, J. S. Los Angele Crawford, J. S. Los Angele Crawford, J. S. Los Angele Case, Isaac M. (diploma indorsed) Los Angele Casroll, H. H. (diploma indorsed) Los Angele Carroll, H. H. (diploma indorsed) Los Angele	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Leonard, J. G. Susanyille.  MABIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Mendocino County.  Card, Ira D. Ukiah. Fare, John Westport. Higgins, C. K. Fort Bragg. Hoffman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, T. F. Covelo.
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Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MARIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Westport. Higgins, C. K. Fort Bragg. Hofiman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Harm H. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Marting N. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Ma
Earl, George W. (diploma indorsed)	LAKE COUNTY.  Gilstrap, J. M. Kelseyville. Hutchins, J. M. Lakeport. Redmond, J. J. Middletown.  Lassen County.  Leonard, J. G. Susanville.  MARIN COUNTY.  Thomas, H. B. San Rafael.  Modoc County.  Camicia, L. S. Lookout. Epperson, J. H. Alturas. Taylor, J. M. Alturas.  Mendocino County.  Card, Ira D. Westport. Higgins, C. K. Fort Bragg. Hofiman, M. Ukiah. Holmes, C. A. Mendocino City. Hogshead, W. H. Ukiah. Mitchell, Hiram H. Ukiah. Mitchell, Harm H. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Ukiah. Mitchell, Marting N. Marting N. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Marting M. Ma
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\* Deceased.

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	REPORT OF BOARD OF DENTAL EXAMINERS.
Monterey County.	Grand Grands
Barden, W. N	SHASTA COUNTY.
Lemon, George B	Gleaves, A. DAnderson.
Demon, George D	Hartman W.P. Shasta City.
N G	Rarn, W. H. Shasta City.
Napa County,	Manchaster M. R. Redding.
Davis, C. ESt. Helen	Tope, John H
Farman, C. H	1 The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the
Hackett, F. M.	SAN DIEGO COUNTY.
Key, J. NCaliston	
Porter, E. MNan	Barnes, F. JSan Diego.
Porter, S. PNaj	Care, D
Root, W. A. St. Helen	Coomes, F. E. San Diego.
Sabin, C. RSt. Helen	Cogswell, Thos. (diploma indorsed)
	Gildea, Bernard M. (diploma indorsed) San Diego.
NEVADA COUNTY.	Goodearle, J. H. (diploma indorsed)
Carr, G. B	Glidden, Miles D. (diploma indorsed)  National City.
Chapman, ANevada Cit	Harbison H R (diploma indorsed)
Chapman, Mrs. N. E. Nevada Cit	Harbison, H. R. (diploma indorsed) ————————————————————————————————————
Eastman, W. W	Leonard, C. N. (diploma indorsed)
Hays, Irwin WGrass Valler	Matthews, E. S. (diploma indorsed)
Harris, S. M. Grass Valley	Merrill, Alfred P. (diploma indorsed)
Harris, M. P. (diploma indorsed)	Philips, R. FSan Diego.
Lancaster, C. E. North San Juan	Parker, D. G. (diploma indorsed)
Martin, S. D	Parker, D. G. (diploma indorsed)
McIntyre, T. W	Rainey, T. H. (examined by Board)
Pennington, A. R. Nevada Cit.	Wasson, John B. (diploma indorsed)'San Diego.
Porter, J. PTrucke	
Robinson, F. A	San Bernardino County.
Relby, J. W. Grass Valley,	Bedford, L. N. (diploma indorsed)
Ward, S. T.*	Bogart, S. C. San Bernardino.
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Plumas County.	Packard, Chas. W. Riverside.
Cate, David B. (diploma indorsed)Quincy	Parker, Francis Marion (diploma indorsed)
Case, David D. (diploma indoised).	Ross, Chas. G. (diploma indorsed)
PLACER COUNTY,	Sylvester, C. W Riverside.
	Tremper, Robert H. (diploma indorsed)Ontario.
Hitchcock, J. W. (examined by Board)	Whitlock, Alma San Bernardino.
Hawver, J. C. Aubum	Westover, G. C. Riverside.
Newson, G. W. (examined by Board)	
Rea, John Lincoln	Santa Barbara County.
Smith, J. F	Doulton, G. H. Santa Barbara.
Wilson, M. W. Dutch Fist Ward, J. N. (examined by Board)	Dimoch H C
ward, J. N. (examined by Board)	Edmonds, J. H. (diploma indorsed)Santa Barbara.
	Lee, D. B. Santa Barbara.
STANISLAUS COUNTY.	Livermore, Geo. W
Drullard, T. W	Moore, H. W. (diploma indorsed)
· Moad, V. R Modesta	Shrewsbury, NSanta Barbara.
Preshaw, R. G. Oakdale	Stauffer, H. W. Santa Barbara.
	Simpson, G. W. (examined by Board)
Sacramento County.	Van Winckel, H. MSanta Barbara.
Bates, B. F. Folson	Viall, George (diploma indorsed)
Gardner, Ed. Sacrament	Yates, Lorenzo GSanta Barbara.
Horner, J. Van C. Sacramenta	0. 35
Light, W. W. Sacramenta	SAN MATEO COUNTY.
Milliken, Chas. T. (diploma indorsed)	Decker, John H. San Mateo.
Pierson, H. H. Sacrament	
Reid, T. BSacrament	SANTA CLARA COUNTY,
Shaw, I. G. Sacrament	
Shields, F. MSacrament	Argall, F. San José
Stephenson, C. H. Sacrament	Barker, Albert MSan José.
Southworth, S. SSacrament	Brigham, K. A
Southworth, E. L. (diploma indorsed)Sacramen	DeCrow, Warren San José.
Stoll, B. F. Sacrament	Finnegan, L. San José.
Tebbets, Frank FSacrament	Fleming, C. K. San José.
Wood, WmSacrament	Fisher, Mrs. Minnie San José
	Gallup, Thomas E. Santa Clara.
SISKLYOU COUNTY.	Gaston, W. ASan José.
Hearn, F. GYreb	Gaston, A. A. (examined by Board) San José.
Lorrison, Chas. A. Yrels	Gothard, J. T. Los Gatos
Remington, C. L. (diploma indorsed)	Hooker, A. O
Millbery, Arthur HJordan	Hall, E. C. San José.

\*Deceased.

12 R	EPORT OF BOARD OF D	ENTAL EXAMINERS.
Holmes, Stephen		San J <sub>0</sub>
Vacan A D		
Kingsbury, Wm. B.		San Jo
Ledyard, F. R.		San La
McGraw, D. F. (exam	ined by Board)	San Jà
Nevius, Geo. F. (diplo	ma indorsed)	
Rogers, E. P.		
SDATE U. B. *		Q <sub>nm</sub> T
Whipple, T. S		San $J_{0i}$
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	Santa Cruz (	
Bliss, Frank W		Santa Cro
Butterfield C. L.		Santa Cro Santa Cro Watsonvil
IJArdan Decer I.		Quat. a
Kirkpatrick, H. C		Santa Orn
Lundy, E. A.		Santa Cro
Libbey, J. L.	and he Decad	Watsonvill
Parker James P /dir	ned by Board)	Watsonvill Santa Cru Santa Cru Santa Cru Santa Cru
Swain, H. P.	noma muorseuj	Watsonville
Stickel, John L. (diple	oma indorsed)	
	SAN BENITO (	
Cooper, Martin S.		Holliste
Pubell W H		Holliste Bitter Wate
muben, W. II		Ditter Wate
	San Joaquin	
Burton, Frank		Stockton
Davenport, A. C		Stockton
Coodell I F*		Stockton
Hown W D*		Stockton
Henderson, W. R.		Stocktor
Henderson, R. W		
Haines, N. J.		Stocktor
Persons M W		Stocktor
Wallace, W. G.		Stockton
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	Solano Cou	
Harding, W. C		Suişun
Moore, W. A		Benicia Vallejo
Show John F		Vallej0 77.11.27
Upchurch. A. B.		Vallejo Vacaville
Upham, F. F		Dixon
Voories, George L		Vallejo
Wyatt, M. U.		Dixon
Dea 110011, J. O		TIO VISI
	SIERRA COU	NTY.
Chapman, S. A		Sierra City
Douglas, G.		Downieville Downieville
Gardiner, Thomas (dip	loma indorsed)	Downieville
•	San Luis (	Davano
D 511.0		
Brown, W.G		San Luis Obispa
Nelson, W. H		San This Ohign
Richey, William S. (di	ploma indorsed)	San Luis Obispa San Luis Obispo San Luis Obispo San Luis Obispo San Luis Obispo
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#### SAN FRANCISCO COUNTY.

Adams, Q. L. Austin, H. Baynes, H. F. (diploma indorsed) Boyd, C. W. Boulton, Thomas Brewer, B. B. Beers, Barrett Birge, J. J. Blankman, Wm. Bunnell, E. F. Burns, O. B.	San :	Francisco.
Austin, H.	San :	Francisco.
Baynes, H. F. (diploma indorsed)	San	Francisco.
Boyd, C. W.	San :	Francisco.
Boulton, Thomas	San .	Francisco.
Brewer, D. D	San	r rancisco. Francisco
Birge, J. J.	San	Francisco.
Blankman, Wm.	San :	Francisco.
Bunnell, E. F.	San :	Francisco.
Burns, O. B.	San .	Francisco.
Bunns, O. B. Braisdell, John H. Burch, Maria A.* Brown, A. V. Bush, Louis Bush, Charles G. (diploma indorsed)	San .	Francisco.
Rrown, A. V.	San	Francisco. Francisco
Bush, Louis	San .	Francisco.
Bush, Charles G. (diploma indorsed)	San :	Francisco.
Blake, A. E.	San	Francisco.
Blake, Charles E. Blood, J. N.	San .	Francisco.
Rise F A	San .	Francisco. Francisco
Blood, J. N.	San :	Francisco.
Bloch, C. Bettis, Harry L.	San :	Francisco.
Bettis, Harry L.	San :	Francisco.
Botsford, George (diploma indorsed)	San :	Francisco.
Brower R A	San .	rrancisco. Francisco
Brewer, L. J.	San :	Francisco.
Brown, W.	San	Francisco.
Bryant, Wm. A. (diploma indorsed)	San :	Francisco.
Brookes, Frank A. (examined by Board)	San :	Francisco.
Boys, Henry S. (examined by Board)	San .	Francisco.
Caranza V A	San	Francisco.
Case, E. G. (examined by Board).	San	Francisco.
Botsford, George (diploma indorsed) Brewer, F. A. Brewer, L. J. Brown, W. Bryant, Wm. A. (diploma indorsed) Brookes, Frank A. (examined by Board) Boys, Henry S. (examined by Board). Chalfant, S. P. (diploma indorsed) Caranza, V. A. Case, E. G. (examined by Board). Clark, Franklin L. Cogswell, James L. Croome, William Case, Chas. E. Clarke, N. H. Curanz, Louis F. Conwell, C. C.	San :	Francisco.
Cogswell, James L.	San :	Francisco.
Croome, William	San .	Francisco.
Clarka N H	oan . San	r rancisco. Francisco
Cranz, Louis F.	San	Francisco.
Conwell, C. C.	San :	Francisco.
Cochrane, E. O.	San :	Francisco.
Cranz, Louis F. Conwell, C. C. Cochrane, E. O. Cummings, J. E. Crossett, E. T. Craigie, Henry Cane, Alfred Conradt, J. N. Coulson, N. T. (diploma indorsed) Crossett, Truman Currah, J. M. Card, Wm. H. Chase, Maurice	San	Francisco.
Craigia Hanry	San	rancisco. Francisco
Cane. Alfred	San	Francisco.
Conradt, J. N.	San	Francisco.
Coulson, N. T. (diploma indorsed)	San .	Francisco.
Cahill, S. D.	San	Francisco.
Urossett, Truman	San .	r rancisco. Francisco
Card. Wm. H.	San	Francisco.
Chase, Maurice	San	Francisco.
Christopher, T	San	Francisco.
Cutlar, R.	San	Francisco.
Coggowly Tolen P	San :	r rancisco. Erancisco
Case George A	San	Francisco.
Dennis, S. W.	San	Francisco.
Dentlar, Ed. F.	San :	Francisco.
Card, Wm. H. Chase, Maurice Christopher, T. Cutlar, R. Cool, W. P. Casserly, John P. Case, George A. Dennis, S. W. Dentlar, Ed. F. Duecker, Wm. E. Decker, Charles W. Duckett, C. S.	San	Francisco.
Decker, Charles W.  Duckett, C. S.  Drucker, Geo. J.  Dunbar, L. L.  Davis, Henry C.  Duck T. L.	san .	r rancisco. Francisco
Drucker, Geo. J.	San :	Francisco.
Dunbar, L. L.	San	Francisco.
Davis, Henry C.	San	Francisco.
Dyer, J. J.	San i	Francisco.
Davis, Henry C. Dyer, J. J. Dutch, Wm.* Dean, G. S. Dempster, James Dean C. G.	san . San	r rancisco. Francisco
Demrister. James	San	Francisco.
Denny Co. Davidson, Robert (examined by Board).	San :	Francisco.
Davidson, Robert (examined by Board)	San .	Francisco.
Dunn, Martin (diploma indorsed)	San .	Francisco.

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Totale Albert M (diplome independ)	α_	17
Esterle, Albert M. (diploma indorsed)	San Sar	Francis
Emerson, Ed. W. Edwards, James W.	San	Francis
Eisen, Ed. J. Fitzpatrick, W. E. (diploma indorsed)	San	Francis
Fitzpatrick, W. E. (diploma indorsed)	San	Francis
Fox, H. B. Ferguson, T. H.	San	Francisc
Fox, J. M	San	Francisco Trancisco
Fuller, C. H.	San	Francisco
Gore, Arthur	San	Francisc
Gorton, C. D.	San	Francisco
Goe, Samuel E.	San	Francisco
Goddard, C. L. Gonzales, I. T.	San	Francisco
Gabbs, M. F.	San	Francisco
Gabbs, M. F. Griswold, W. F.	San	Francisco
Graves, W. L.	San	Francisco
Gunzbúrger, B. M	San	Francisco
Goorge F	Non	H'ranciem
Gibson Fred M	San	Francisco
Gambetz, Milton R. (examined by Board)	San	Francisco
Gibson, J. M. (diploma indorsed)	San	Francisco
Gibson, Fred. M. Gambetz, Milton R. (examined by Board) Gibson, J. M. (diploma indorsed) Hofleng, Fred. Hardcastle, George	San	Francisco
Hill Alfred S	San	Francisco
Hill, Alfred S. Hibbard, C. W.	San	Francisto
Heins, Julius	San	Francisco
Hatch, J. A.	San	Francisco
Hill, Albert B.	San	Francisco
Hill, Thomas L. Hill, Walter B.	San	Francisco Francisco
Haselhurst, A. O.	San	Francison
Hill. Alfred L.	San	Francisco
Haines, B. W.	San	Francisco
Harrisón E. L.	San	Francisco
Hastings, Robert Hackett, F. M.	San	Francisco
Iglehart, T. A.	San	Francisco
Jacobs, B. R.	San	Francisco
Jacobs, B. R. Jennin, E. L.	San	Francisco
Kauffung, Louis H.	San	Francisco
Knox, Henry E	San	Francisco
Kemp Van Eee. Fred.	San	Francisco
King, Wm. J.	San	Francisco
King, L. A Kemp Van Eee, Fred King, Wm. J Knowlton, John S	San	Francisco
Lorg. F. S.	san	r rancisco
Lubbock, W. C	San	Francisco
Lundborg, J. A. W.	San	Francisca
Lightbody, H.	San	Francisco
Leek, Geo. W.	San	Francisco
Locke, C. W.	San	Francisco.
Lord, C. U. Lawrence, Geo. O.	san . San	r rancisco Prancisco
Lightcap, Sam. E.	San	Francisco
Lightcap, Sam. E. Morffew, Thos	San	Francisco
Moulton, Calvin B.	San	Francisco
Myers, Oliver P	San .	Francisco
Maunder, Philip	San	Francisco Francisco
Moore, C	San	Francisco
McKenzie, A. W.	San i	Francisco
Maunews, James	san i	Francisco Francisco
Matthews, James Massie, H. C. Malech, T. G. Morton, H. R., Jr. Manucilla, Maguel	san . San	r rancisco Francisco
Morton, H. R., Jr.	San .	Francisco
Mancilla, Maguel	3an	Francisco
Mendes, Chas	san i	Francisco
Maldonado, E. (diploma indorsed)	san .	Francisco
Nenmann, L.	san .	r rancisch Francisch
Newton, Stanley D. (examined by Board).	San :	Francisco
,v - : \		

Pierce, T. B Price, W. E Park, E. E	.San Francisco.
Price, W. E	San Francisco.
Park, E. E.	San Francisco.
Proll R B	San Francisco.
Perry, Chas. A. Proll, R. B. Plonteaux, H. J.	San Francisco.
Porter, John S.	San Francisco.
Pratt, Frank E.	San Francisco.
Pancoast, Franklin	San Francisco.
Pring Procet (exemined by Pearl)	. San Francisco.
Ralls R F	San Francisco
Pratt, Frank E. Pancoast, Franklin. Pugsley, Sanford (diploma indorsed). Pring, Ernest (examined by Board). Ralls, R. F. Rea, C. F. Rinebold, J. J. Remington, J. W. Ran. Henry.	San Francisco.
Rinebold, J. J.	San Francisco.
Remington, J. W	. San Francisco.
Rietzhe, Gustav	San Francisco.
Richards C. W.	San Francisco.
Richards, W. H.	San Francisco.
Robinson, W. H.	San Francisco.
Roberts, S. H.	San Francisco.
Rowand, James T. (diploma indorsed)	.San Francisco.
Rietzhe, Güstav Rankin, J. H. Richards, C. W. Richards, W. H. Robinson, W. H. Roberts, S. H. Rowand, James T. (diploma indorsed) Sichel, G. W. (diploma indorsed) Schultz, E. H. Sublett, W. A. Swarzschild, F. Salmon, William Switser, Anna. Spear, Thomas R. Sylvester, H.	San Francisco.
Sphlott W A	San Francisco.
Swarzschild. F.	San Francisco.
Salmon, William	.San Francisco.
Switser, Anna	San Francisco.
Spear, Thomas R.	San Francisco.
Sylvester, H. Smith, M. E.	San Francisco.
Schneider, Joseph	San Francisco.
Simms, Charles	San Francisco.
Sloat Charles F	.San Francisco.
Swain, E. M. Stevens, Henry H. Sanger, I. Spence, Stuart J.	San Francisco.
Stevens, Henry H	San Francisco.
Sanger, 1	San Francisco.
Sheets, H. Clay	San Francisco.
Sandford, L. N.	San Francisco.
Sandford, L. N. Stanley, W. H. Sullivan, Maurice J.	San Francisco.
Sullivan, Maurice J.	San Francisco.
Savage, Henry	San Francisco.
Turner, H. C.	San Francisco.
Turner, W. A. Truman, H. G.	San Francisco.
Thrall. H. H.	San Francisco.
Thrall, H. H. Troist, J. F.	San Francisco.
Thrailkill, Wm. O	San Francisco.
Teague, L. A.	San Francisco.
Teague, Fred	San Francisco.
New H N	San Francisco.
Troist, J. F. Thrailkill, Wm. O. Teague, L. A. Teague, Fred. Trumpour, J. P. Urmy, H. N. Verrinder, A. E. (diploma indorsed). Verrinder, R. F. (diploma indorsed). Van Ordan, L. Vidaver, N. J. Van Crombruggle, A.	San Francisco.
Verrinder, R. F. (diploma indorsed)	San Francisco.
Van Ordan, L.	San Francisco.
Vidaver, N. J.	San Francisco.
Vian Crombruggle, A. Winter, J. W. Winter, W. G. Wilson, C. H. Wilbert, J. L.*	San Francisco.
Winter W. G.	San Francisco.
Wilson, C. H.	San Francisco.
Wilbert, J. L.*	San Francisco.
WOOD, Aliarew D.	San Francisco.
Warner, A. Wada Thomas	San Francisco.
Wade, Thomas *	Loan Francisco.
Young, H. G.	San Francisco.
Younger, W. J.	San Francisco.
Whiteomb, N. T. Young, H. G. Younger, W. J. Younger, Ed. A.	. San Francisco.
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#### SONOMA COUNTY.

SONOMA COURTY,	
Anderson, David P. (examined by Board)	Santa Ros
C810 Well, Ci. 14	Santa Rad
Cook, W. E	Healdshu
Caldwell, F. M.	Santa Roo
Cole, Hiram	Santa Ros
Coomes, A. M. Campbell, R. E. (examined by Board) Eshbach, D. M.	Healdsham Healdsham
Eshbach, D. M.	Sonom
Maioraito, M. D	CHOVerdal
Huebner, O. C. Jones, Harold McKean (diploma indorsed)	Healdsburg
Kruegner, O. F.	Healdshim
Lovejoy, S. E. Lovejoy, Geo. E.	Petalum
Lovejoy, Geo. E.	Petalum
McLain, A. F. Perkins, C. O.	Santa Ross
Powell, John D.	Healdshum
Reed, Chas. W	Santa Ros
Savage, C. W.	Santa Ross
Saul, Geo. M. Stone, John T.	Santa Ross
Wiley, J. N.	Santa Rosa
SUTTER COUNTY.	
Moore, J. E.	Live Oak
	•
TRINITY COUNTY.	
Spratt, C. W	Weaverville
TUOLUMNE COUNTY.	
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Menendez, I. A	Sonora
Michielle, Itelity	
TEHAMA COUNTY.	
Barrett, C. J.	Red Bluff
Fuller, F. N.	Red Bluff
Sehorn, W. A.	Red Blu
TULARE COUNTY,	
Asay, J. L	Vicalio
Asay C E	Visalia
Asay, C. E. Boone, Nathaniel J. (diploma indorsed)	Traver
Cooper, E. M. Hunsaker, G. W.	Visalia
Key, T. B.	Tulare
Martin, Todd	Tulare
VENTURA COUNTY.	
Hedrick, Lyman	Ventura
Stewart, S. L. Staire, J. M. (diploma indorsed)	Ventura Ventura
Share, J. M. (diproma indorsed).	· A CHIGA
YOLO COUNTY.	
Dick A N	Woodland
Holmon I D	ATINDO VIX
Hodgen, I.	Woodland
Hodgen, J. D. (diploma indorsed)  Musselman, D.	Woodiana
	Induite
YUBA COUNTY.	
Boyd, Geo. H.	Marysville
Jewett, Stanley Smith, J. B. N.	Marysville
Smith, J. B. N. Walker, John D.	Marysville Hansonville
Walker, Albin J	Hansonville
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## SIXTH ANNUAL REPORT

OF TH

## BOARD OF DENTAL EXAMINERS

OF THE

### STATE OF CALIFORNIA.



#### SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

#### REPORT.

To his Excellency R. W. WATERMAN, Governor of the State of California: Sir: The Board of Dental Examiners of the State of California submit the following as their sixth annual report of its proceedings, together with an account of all moneys received and disbursed in compliance with the requirements of that certain Act of the Legislature, entitled "An Act to insure the better education of practitioners of dental surgery, and to regulate the practice of dentistry in the State of California, approved March 12, 1885, a copy of which is hereunto annexed. Since issuing the last report, the Board has held four meetings. On May eighth, Governor R. W. Waterman appointed on the Board F. F. Tebbetts, of Sacramento, vice J. S. Crawford, term expired. At the meeting held July 10, 1890, eighteen candidates appeared for examination, nine of whom successfully passed. At this meeting the election of officers was held. Dr. S. E. Knowles, of San Francisco, was elected President, and Dr. W. F. Griswold, of San Francisco, was elected Secretary. The following are the present officers and members of the Board: W. J. Younger, M.D. San Francisco. Dr. J. J. Birge San Francisco. Dr. F. R. Tebbetts Sacramento.
E. L. Townsend, D.D.S. Los Angeles.
Dr. W. F. Griswold, Secretary San Francisco. During the past year two persons have been registered. Eighteen diplomas have been indorsed, and nine candidates have received certificates on examination. A list of all whose names have been registered, and of those whose diplomas have been indorsed, and of all those who have received certificates on the examinations of the Board, is hereunto annexed. The following is an account of all money received and disbursed by the Board since the last report: For registration, for four persons, at \$1 each..... .....\$394 00 Balance on hand at last report \_\_\_\_\_\_ 169 40 Making a total of \_\_\_\_\_\_\_\$563 40 DISBURSEMENTS. Traveling expenses of members
Necessary clerical expenses Rent of hall, one year \_\_\_\_\_\_ 130 00

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Balance in hand of Secretary \$262 68

All persons who are now practicing dentistry in this State, and when the state is the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t have not received a certificate from this Board in pursuance of the Ad mentioned, are violating the law, and are subject to arrest, and a fine \$50 to \$200, or imprisonment for six months in the county jail, for each and every offense.

It will be necessary for all persons who may hereafter desire engage in the practice of dentistry in this State to secure a certificate from this Board, upon a diploma from a reputable dental college, of after examination in dental surgery, as required by the Act of March 12, 1885. In examining applicants for certificates to practice dentistry the Board will examine in the branches of anatomy, physiology, pathol ogy, histology, hygiene, materia medica, therapeutics, chemistry metallurgy, operative dentistry, dental jurisprudence, and prostheti dentistry. Examinations will be both written and clinical. Seventy five per cent will be required on the written examinations, and in additional tion a satisfactory clinical examination will be required of all those who are successful on the written examinations.

Each applicant must come prepared to do any work designated for him. The Board will furnish chairs, engines, vulcanizers, and all necessarv materials.

The next regular meeting for the examination of candidates will be held in San Francisco, commencing Tuesday, August 11, 1891, at 10 A. M.

It seems to be popularly supposed that the Board of Examiners shall prosecute all persons violating the law. This is not the case; but it is the duty of every dentist to see that the law is enforced, and it is the duty of every prosecuting attorney of each county to prosecute every person violating the law, on receipt of information of such violation and the necessary evidence to establish the fact.

#### STEPS TO BE TAKEN TO PROSECUTE.

Positive evidence of the violation of the law must first be obtained This, with a formal information and a list of witnesses, should be handed to the prosecuting attorney, who will then be in duty bound to prosecute the case.

The attention of licensees is called to the fact that they are required have their licenses recorded with the County Clerk of the county in which such persons may reside; it requires no action of the Board work a forfeiture of the license under Section 8 of the law: The fact failure to have it recorded within six months of date of issue, subject licensee to the penalty for neglect.

We recommend that Section 6 of the Dental Law be amended, so the the informer of violations of the Act, "in cases of conviction," shall receive one half the fine imposed.

The Board is more than ever impressed with the importance of legis lation of this character, and have greater confidence that the judicion administration of the law under which they act must redound to benefit of the community.

All of which is respectfully submitted. Board of Dental Examine of the State of California.

S. E. KNOWLES, M.D., D.D.S.,

W. F. GRISWOLD. Secretary. President

OCTOBER 13, 1890.

#### AN ACT

To Insure the Better Education of Practitioners of Dental Surgery, and to Regulate the Practice of Dentistry in the State of California.

#### [Approved March 12, 1885.]

The People of the State of California, represented in Senate and Assembly, do enact as follows: SECTION 1. It shall be unlawful for any person, who is not at the time of the passage of this Act engaged in the practice of dentistry in this State, to commence such practice unless he or she shall have obtained a certificate, as hereinafter provided.

SEC. 2. A Board of Examiners, to consist of seven practicing dentists, is hereby created, whose duty it shall be to carry out the purposes and enforce the provisions of this Act. The members of said Board shall be appointed by the Governor from the dental profession of the State at large. The term for which the members of said Board shall hold their office shall be four years, except that two of the members of the Board first to be appointed under this Act shall hold their office for the term of one year, two for the term of two years, two for the term of three years, and one for the term of four years, respectively, and until their successors shall be duly appointed and qualified. In case of a vacancy occurring in said Board, such vacancy shall be filled by the Governor, in

conformity with this section.

SEC. 3. Said Board shall choose one of its members President and one Secretary thereof, and it shall meet at least once in each year, and as much oftener and at such times and places as it may deem necessary. A majority of said Board shall, at all times, constitute a quorum, and the proceedings thereof shall, at all reasonable times, be open

to public inspection. SEC. 4. Within six months from the time this Act takes effect, it shall be the duty of every person who is now engaged in the practice of dentistry in this State to cause his or her name and residence, or place of business, to be registered with said Board of Examiners, who shall keep a book for that purpose. The statement of every such person shall be verified under oath before a Notary Public or Justice of the Peace, in such manner as may be prescribed by the Board of Examiners. Every person who shall so register with said Board as a practitioner of dentistry, shall receive a certificate to that effect, and may continue to practice as such without incurring any of the liabilities or penalties provided in this Act, and shall pay to the Board of Examiners for each registration the fee of one dollar. It shall be the duty of the Board of Examiners to forward to the County Clerk of each county in the State a certified list of the names of all persons residing in his county who have registered in accordance with the provisions of this Act, and it shall be the duty of all County Clerks to register such names in a book to be kept for that purpose.

SEC. 5. Any and all persons who shall so desire, may appear before the Board at any of its regular meetings and be examined in reference to their knowledge and skill in dental surgery; and if the examination of any such person or persons shall prove satisfactory to said Board, the Board of Examiners shall issue to such persons as they shall find to possess the requisite qualifications a certificate to that effect, in accordance with the provisions of this Act. Said Board shall also indorse as satisfactory, diplomas from any reputable dental college, when satisfied as to the character of such institution, upon the bolder furnishing evidence satisfactory to the Board of his or her right to the same, and shall issue certificates to that effect within ten days thereafter. All certificates issued by said Board shall be signed by its officers, and such certificates shall be prima facie evidence of the right of the holder to practice dentistry in the State of California.

SEC. 6. Any person who shall violate any of the provisions of this Act shall be deemed guilty of a misdemeanor, and upon conviction, may be fined not less than fifty dollars nor more than two hundred dollars, or confined six months in the county jail, for each and every offense. All fines recovered under this Act shall be paid into the Common School

Fund of the county in which such conviction takes place.

SEC. 7. In order to provide the means for carrying out and maintaining the provisions of this Act, the said Board of Examiners shall charge each person applying to, or appearing before them for examination for a certificate of qualifications, a fee of ten dollars, which fee shall be in no case returned; and out of the funds coming into the possession of the Board from the fees so charged, and penalties received under the provisions of this Act, all legitimate and necessary expenses incurred in attending the meetings of said Board shall be paid; and no part of the expenses of the Board shall ever be paid out of the State Treasury. All moneys received in excess of expenses above provided for shall be held by the Secretary of said Board as a special fund for meeting the expenses of said Board, and carrying out the provisions of this Act, he giving such bonds as the Board shall from time to time direct; and said Board shall make an annual report of its proceedings to the Governor by December first of each year, together with an account of all moneys received and disbursed by them pursuant to this Act.

SEC, 8. Any person who shall receive a certificate from said Board to practice dentistry, shall cause his or her certificate to be registered with the County Clerk of the astry, shall cause his or her certificate to be registered with the County Clerk of the county in which such person may reside, and the County Clerk shall charge for registering such certificate a fee of one dollar. Any failure, neglect, or refusal on the part of any person holding such certificate to register the same with the County Clerk as above directed, for a period of six months, shall work a forfeiture of the certificate, and no certificate, when once forfeited, shall be restored, except upon the payment to said Board of twenty-five dollars, as a penalty of such neglect, failure, or refusal.

SEC. 9. Any person who shall knowingly or falsely claim, or pretend to have or hold a certificate of license, diploma, or degree granted by any society organized under any pursuant to the provisions of this Act, or who shall falsely, and with intent to decein the public, claim, or pretend to be a graduate from any incorporated dental college shall be deemed guilty of a misdemeanor, and shall be liable to the same penalty as provided in Section 6.

SEC. 10. Nothing in this Act shall be so construed as to prohibit any practicing physician from extracting teeth.

SEC. 11. This Act shall take effect immediately.

### OFFICIAL REGISTER

OF DENTISTS HOLDING CERTIFICATES FROM THE BOARD OF DENTAL EXAMINERS IN THE STATE OF CALIFORNIA.

#### ALAMEDA COUNTY.

Armstrang, John J.	Alameda.
Beales, C. H.	Oakland.
Bills Albert V (diploms indersed)	Oakland
Beales, C. H. Bills, Albert V. (diploma indorsed) Belfils, E. K.	Oakland.
Dennis, B. R.	Oakland.
Burnett, E. K. Brooks, W. E.	Oakianq.
Brooks, W. E.	Oakland.
Bishop, M. N.	Alameda.
Bishop, M. N. Bates, C. P.	Berkelev.
Barradas, F. C. Bernard, Geo.* (diploma indorsed) Cole, R. E.	an Leandro
Domand Coo * (dislama independ)	Tivormore
Colo D. T.	1-1 3
Cole, R. E.	Qakiand.
Craig, W. H.	Oakland.
Graig, W. H. Carpenter, O.	Oakland.
Çool, R. H.	Oakland.
Cornwell A	Oakland
Cool G W	Ookland.
County (1. 11 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 and 1. 12 an	Oakland.
Corwin, Cech (examined by Board)	Qakiang.
Gool, Mrs. Lue	Oakland.
Carlton, Harry P. (diploma indorsed)	Oakland.
Cool, G. W. Corwin, Cecil (examined by Board). Cool, Mrs. Lue Carlton, Harry P. (diploma indorsed). Danziger, G. A. Dimmick, Joseph.	Oakland.
Dimmick Joseph	Oakland.
Dunn, R. K.	Oakland
Edwards D T	Ookland.
Edwards, B. F. Fisher, F. H. (examined by Board) Gilman, S. M.	Oakiand.
Fisher, F. H. (examined by Board)	Qakland.
Gilman, S. M.	Oakland.
Garcia, M. J.	an Leangro.
Halsev. I. S.	Oakland.
Hall, T. W.	Oakland
Hutton, J. A. D.	Berkeley
Hempstead, J. E.	Oakland
Hackett, S. A.	Ookland.
Haukeut, S. A.	Oakianu.
Knowles, S. E.	Alameda.
Knowles, William A.	Alameda.
Kriechbaum, G. H.	Oakland.
Koehler, Frank	Sunol.
Kenworthy, L.	Ban Leandro.
Lane, C. S.	Oakland.
Lee, E. W.*	est Oakland
1 noo (2 T	(Aoltlond
Tone The Best State (3:1-1	Oakland,
tane, Frederic James (diploma indorsed)	Oakiand.
Lane, Frederic James (diploma indorsed). Lewis, Walter F. (examined by Board). Meek, R. W.	Qakland.
Meek, R. W.	Uakland.
MUIICS, A. II.	Alameua.
Morris, T. H.	Oakland.
Manning A Ti	0.3.1
Merriman A F Tr	Oakland
Mariton H C (aversized by Reard)	Oakland
Molicone Dill (4) distance by Board)	Oobleed
mccargar, Pitt. (diploma indorsed)	Oakiang.
retton, L. D.	Uakland.
Merriman, A. F., Jr.  Moulton, H. G. (examined by Board)  McCargar, Phil. (diploma indorsed)  Petton, L. D.  Powell, Andrew J. (diploma indorsed)  Plomteaux, H. J.  Rodelph Ches T.	Haywards.
Plomteaux, H. J.	Oakland.
Rodolph, Chas. T.	Oakland.
Rabe, John	Oakland
Stoakes, F. C.	San Laandro
Nimmon W U	Ooklord
Simmons, W. H.	Oakiand.
Schmidt, G. L.	yakiand.
Schumer, A. C. Saxe, Fred. J. (diploma indorsed)	Oakland.
Saxe, Fred. J. (diploma indorsed)	Oakland.

January Company of Daniel Market Market		REPORT OF BOARD OF DENTAL EXAMINERS.	9
Savage, S. L.	Livermore	Tan Assamen Commen	
Tate, S. P., Jr.	Oaklan	Los Angeles County.	
Titcomb, C. B.	Oakland	Adams; S. H.	Los Angeles.
Timerman, E. C. (diploma indorsed)	Oakland	Bird, W. R. Baldwin, C. V.	Los Angeles.
Wilson, O. F.	Ookland	Bourne, Robert R (diploma indorsed)	Los Angeles.
Waltz, G. W. Walker, Chas. H. (examined by Board)	Oakland	Bourne, Robert R. (diploma indorsed) Broadbeck, H. W. (diploma indorsed)	Los Angeles.
water, order in (Manufactor of Double)		Cunningham, R. G.	Los Angeles.
AMADOR COUNTY.	3	Crawford, J. S.	Los Angeles.
IIMADOR OUGHI.	. á	Carroll, H. H. (diploma indorsed)	Los Angeles.
Gray, John		Deffenbacher, D. S. (examined by Board) French, L. W.	Los Angeles,
Gabbs, E. S.	Sutter Creek	Fuëlgraff, Alma M. E. (diploma indorsed)	Los Angeles.
La Due, W. K.	Plymouth	Harlan, C. N.*	Los Angeles.
		Hubbell, A. B.	Los Angeles.
BUTTE COUNTY.		Hollingsworth, M. W. Hollingsworth, J. W.	Los Angeles.
Crum, T. A.	Chico	Hollingsworth, J. W	Los Angeles.
McFadgen, A.		Janes, R. K.	Pasadena
Norman, George H.	Gridley.	Knepper, G. (examined by Board)	Los Angeles.
Read, W. S.		Lowder, W. D. (examined by Board)	Santa Monica.
Stewart, Robert (diploma indorsed)	Chico,	Little, F. F. (diploma indorsed)	Los Angeles.
Vanaukin, J. R	Chico,	Masser, W. H.	Los Angeles.
Wasley, D. W.		Milliard, G. A. Morris, R. W. (diploma indorsed).	Log Augeles
	·	Nichols, A. E. (diploma indorsed)	Pasadena.
Colusa County.		Palmer, Frank M.	Los Angeles.
COBOSA COURTI.	1	Palmer, Arthur H. (diploma indorsed)	Pasadena.
Ciley, J. L.		Parker, C. H. (examined by Board)	Los Angeles.
Pirkey, M.	Willows	Stephens, Frank E.	
Pirkey, Frank Zea (diploma indorsed)		Stephens, C. Spinks, M. E.	
Smith, Frank Z. Washer, W. A.	Willows	Smitt, Uriel	Los Angeles.
W 460101, W . 11.	W 1110WA	Shoemaker, R. H.	San Gabriel.
CONTRA COSTA COUNTY.	•	Small. H. E.	Los Angeles.
COMIRA COSTA COUNTI,	V.	Swift, Theodore E. (diploma indorsed)	Los Angeles.
McCabe, Edward		Tolhurst, S. H. Tolhurst, G. W.	Los Angeles.
Moore, J. S.		Townsend, E. L. (diploma indorsed)	Los Angeles.
Moore, J. S., Jr.	Martinez	Townsend, Jesse R. (diploma indorsed)	Pasadena.
2 2		Townsend, Jesse R. (diploma indorsed)	Pomona.
CALAVERAS COUNTY.		Dunn, J. H.	Pomona.
Oviatt, S. M.	an Andress	Hurtí, J. M. (examined by Board) Todd, Baxter	l'omona.
Smith, C. D.	ngels Camp.	Todd, Robert A. (diploma indorsed)	Los Angeles.
•		Von Bonhorst, C. G.	Pomona.
EL DORADO COUNTY.	•	White, J. M.	Los Angeles.
O		Wells, L. W.	Los Angeles.
Stone, W. W.		Wilder, D. R.	Los Angeles.
Tyson, Chas		T - 0	
Walk, Chab. M.	-1 Tacer ville	LAKE COUNTY.	•
Fresno County.		Gilstrop, J. M.	Kelseyville.
	-	Hutching I M	Lakeport.
Cooper, J. C.	Fresno	Redmond, J. J.	Middletown.
Couch, Fred. L. (diploma indorsed)	Selma	I come Correspon	
Doyle, B. W. Earl, George W. (diploma indorsed)	Solma	LASSEN COUNTY.	
Hunsaker, A. L.	Freeno.	Leonard, J. G.	Susanville.
Hendricks, H. T.	Kingsburg	2001sulu, 0, 0,-2.12-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	, , , , , , , , , , , , , , , , , , , ,
Marcoux, Henry F. (diploma indorsed)	Fregno.	Marin County.	
Prather, W. J.	Fresno.		San Dafaal
	1	Thomas, H. B.	pan Kalael.
HUMBOLDT COUNTY.		Modoc County.	
Beverton, D. W.	Eureka.	MODOC COUNTI,	
Ingersall, A. E.	Eureka 🕯	Camicia, L. S	Lookout.
Johnston, Robert (diploma indorsed)	Ferndale		
O'Connor, D. L.	Blocksburg	Epperson, J. H	Albufas.
Ray, C. B.		Monterey County.	
Thompson, R. P. Weldon, E. J.	Fireke		
Weldon, J. A.	Eureka	Barden, W. N.	Salinas.
" vanvanj VI AN berretters seestate een een een een een een een een een e		Bardén, W. NLemon, George B	Saiinas.
KERN COUNTY.			
		*Deceased,	
Bonham, J. F.	Bakersfield.		•
	4		

Men	DOCINO COUNTY.
Copsey, A. N. (diploma indorsed)	Mendocine
Card, Ira D.	Ukiah
Higgins C R	Westport Fort Bragg
Honman. M.	
Holmes, C. A.	
Hogshead, W. H.	Ukiah Ukiah
Mitchell, Hiram H.	Ukiah
McGowen G	Ukiah,
Willsey, T. F.	Ukiah, Covelo,
, •	
Mε	RCED COUNTY.
Prather, W. R.	Merced,
Wassman, Max	Merced.
N.	APA COUNTY.
Bates, C. P.	Napa,
Davis, C. E.	St. Helena
Farman, C. H.	Napa,
	Napa City.
Porter E M	Calistoga Napa,
Porter, S. P.	Napa.
Root, W. A.	Napa St. Helena
Sabin, C. R.	St. Helena,
<b>^-</b>	~
NE	VADA COUNTY.
Archer, Ira B. (diploma indorsed)	
Carr, G. B.	Grass Valley. Nevada City.
Chapman, Mrs. N. E.	Nevada City.
Eastman W W	Nevada City. Nevada City.
Havs. Irwin W.	Grass Valley.
Harris, S. M.	Grass Valley. Grass Valley.
Harris, M. P. (diploma indorsed)	Grass Valley.
Mortin S D	North San Juan.
McIntyre T. W.	Nevada City. Nevada City.
Pennington, A. R.	Nevada City.
Portor T P	Truckee
Robinson, F. A.	Nevada City.
Word S T*	Grass Valley. Nevada City
in with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	(
Or.	ANGE COUNTY.
Burgess, R. F.	Santa Ans.
McCoy, John C.	Orange. Orange
rurnell, George E. (diploma indorsed)	Orange Contains
Vanderlin, John T.	Santa Ana
Vanderlip, George G.	Santa Ana. Santa Ana. Santa Ana. Santa Ana.
Young, John E.	Santa Ana.
Th	IMAS COUNTY.
_ <del></del> -	4
Cate, David B. (diploma indorsed)	Quincy.
Hyde, Alfred T. (examined by Board)	Spanish Ranch Spanish Ranch
Liyue, Chas. G. (examined by board)	spanish Kanca-
$\mathbf{P}_{\mathbf{L}t}$	CER COUNTY.
	A uburn.
Hawver I C	Anbura
Newson, G. W. (examined by Board)	Auburn Auburn Auburn
Kea. John	Lincou
Smith J. F	Forest HP®
Word I N (examined by Roard)	Dutch Flat Newcastle
<del></del>	IN e w Cases
*Deceased.	

STANISLAUS COUNTY.	
Drollard, T. W. Lockwood, A. T. (examined by Board). Moad, B. R. Preshaw, R. G.	Modesto.
Moad, B. R Preshaw, R. G.	Modesto. Oakdale.
Siskiyou County.	
Hearn, F. G.	Yreka.
Larison, Chas. A.	Yreka,
Hearn, F. G.  Larison, Chas. A.  Remington, C. L. (diploma indorsed)  Millberry, Arthur H.	Jordan.
SACRAMENTO COUNTY.	
Bates, B. F.	Folsom.
Gardner Hid	Sacramento.
light, W. W.	Sacramento.
Horner, J. Van C. Light, W. W. Milliken, C. T. (diploma indorsed). Metcalf, Fred. S. (diploma indorsed).	Sacramento,
Pierson, H. H.	Sacramento.
Reid, T. B. Shaw, I. G.	Sacramento.
Stephenson, C. H.	Sacramento.
Shields, F. M.	Sacramento,
Southworth, S. S. Southworth, E. L. (diploma indorsed) Stall, B. F.	Sacramento.
Stall, B. F. Tebbetts, F. F.	Sacramento.
Wood, Wm.	Sacramento.
SHASTA COUNTY.	
Gleaves, A. D.	Anderson
Hartman, W. P. La Baree, W. H.	Shasta City.
La Baree, W. H. Manchester, M. R.	Shasta City.
Tope, John H.	Redding.
SAN DIEGO COUNTY.	
Barnes, F. J.	
Cave, D	San Diego.
Cogswell, Thomas (diploma indorsed)	El Cajon.
Coomes, F. E. Cogswell, Thomas (diploma indorsed) Gould, H. W. Gildea, Bernard M. (diploma indorsed)	San Diego.
Goodearle, J. H. (diploma indorsed) Glidden, Miles D. (diploma indorsed)	Elsinore.
Harbison, H. R. (diploma indorsed)	National City.
Harbison, H. R. (diploma indorsed) Hurd, Edgar L. (diploma indorsed)	San Diego.
Leonard, C. N. (diploma indorsed) Matthews, E. S. (diploma indorsed) Merrill, Alfred P. (diploma indorsed)	San Diego.
Merrill, Alfred P. (diploma indorsed)	San Diego.
Phillips, R. F. Parker, D. S. (diploma indorsed) Price, J. T. (diploma indorsed)	West Fall Brook.
Price, J. T. (diploma indorsed)	San Jacinto.
Rainey, T. H. (examined by Board) Sheriff, E. W. (diploma indorsed) Wasson, John B. (diploma indorsed)	San Jacinto.
Wasson, John B. (diploma indorsed)	San Diego.
SAN BERNARDINO COUNTY.	
Bedford, L. N. (diploma indorsed)  Bogart, S. C.  Musselman, S.  Packard, Charles W.  Parker, Francis Marion (diploma indorsed)  Rose Charles G. (diploma indorsed)	San Bernardino.
Musselman, S.	Cucamonga.
Packard, Charles W.	Riverside.
Ross, Charles G. (diploma indorsed)	Riverside.
8ylvester, C. W.	
Tramper Robert H (diplome indexed)	Riverside,
Tremper, Robert H. (diploma indorsed) Taber, M. E. (diploma indorsed)	Riverside, Ontario, San Bernardino.
Ross, Charles G. (diploma indorsed) Sylvester, C. W. Tremper, Robert H. (diploma indorsed) Taber, M. E. (diploma indorsed) Whitlock, Alma Westoyer, G. C.	Riverside. Ontario. San Bernardino. San Bernardino. Riverside

SANTA BARBARA COUNTY.	
Doulton, G. H.	Santa Barbara
Dimock, H. C. Edmonds, J. H. (diploma indorsed)	Lompoc
Edmonds, J. H. (diploma indorsed)	Santa Barbara
Lee, D. B.	Santa Barbara
ivermore, George W. Moore, H. W. (diploma indorsed) hrewsbury, N.	Santa Barbara
hrawahuru N	Santa Barbara
tanffer H W	Santa Barbara
tauffer, H. W. impson, G. W. (examined by Board) an Winckel, H. M.	Santa Barbara
an Winckel, H. M.	Santa Barbara
iall, George (diploma indorsed)	Santa Barbara
Thite, George Archer (diploma indorsed)	Santa Barbara.
iall, George (diploma indorsed) /hite, George Archer (diploma indorsed) ates, Lorenzo G.	Santa Barbara,
SAN MATEO COUNTY.	
ecker, John H.	San Mateo.
SANTA CLARA COUNTY.	
	Son Togs
argall, Frank L	San Toss
righam, K. A.	Cilron
onham, C. A.	
eCrow, Warren	San José
'innegan, L	San José
leming, C. K.	San José.
leming, C. K. isher, Mrs. Minnie	San José.
allup, Thomas E.	Santa Clara.
aston, W. A. aston, A. A. (examined by Board)	San José.
asion, A. A. (examined by board)	San José.
othard, J. T.	LOS URIOS.
ooker, A. O. all, E. C.	San Ices
olmes. Stephen	San José
olmes, Stephen enkins, O. C. (diploma indorsed)	San José.
ing, J. F.	San José.
lein. N.	San José.
napp, A. R. ingsbury, William B. edyard, F. K.	San José.
ingsbury, William B.	Santa Clara
edyard, F. K.	San José.
CGraw, D. F. (examined by Board)evins, George F. (diploma indorsed)	San José.
evins, George F. (diploma indorsed)	San Jose
ogers, E. P.	San Toek
hodes, S. R	Gilrov
prake. W. T.	San José
paw. C. R.*	San José
paw, C. R.* hipple, T. S.	San José.
SANTA CRUZ COUNTY.	
liss. F. W.	Santa Cruz
lliss, Chas, L	Santa Cros. 🛭
utterfield, C. L	Watsonville.
ordon, Oscar L.	Santa Cruz. 🛭
irkpatrick, H. C.	Santa Cruz
undy, E. A.	Santa Crus 🛚
ibbey, J. L. arker, James P. (diploma indorsed)	watsonville
vain, H. P.	Wataanina Crus.
ickel, John L. (diploma indorsed)	Watsonville.
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SAN BENITO COUNTY.	TT 111 1
oper, Martin Sendricks, John D	Hollister
ubell, W. H.	Bitter Water
	3002 ,, 400
San Joaquin County.	•
surton, Frank	Stockton
avenport, A. C.	Stocktor
'ickett, S. H	Stockton-
Deceased.	
24040044	

Goodell, L. E.* Hann, W. D.*	Stockton.
Hann, W. D.*	Logi.
Haines, N. J. Meseroll, J. M.	Stockton.
Persons M W	Stockton.
Wallace, W. G	Stockton.
Turner, P. T.	Lodi.
SOLANO COUNTY.	
Harding, W. C.  Moore, W. A.  Pendleton, B. F. Shaw, John F.	Suisun.
Moore, W. A.	Benicia.
Pendleton, B. F.	Vallejo.
Shaw, John F.	Vallejo.
Upchurch, N. B. Upham, F. F.	vacavine.
Voories, George L.	Valleio.
Wyatt, M. O.	Dixon.
Stanton, J. C. Platt, F. L. (diploma indorsed)	Rio Vista.
Platt, F. L. (diploma indorsed)	Vacaville.
,	
SIERRA COUNTY.	
Chapman, S. A.	Sierra City.
Douglas, G. Gardiner, Thomas (diploma indorsed)	Downieville.
Gardiner, Thomas (diploma indorsed)	Downieville.
SAN LUIS OBISPO COUNTY.	•
	O T
Brown, W. G.	San Luis Obispo.
Garrison, D. M. Nelson, W. H.	San Luis Obispo.
Richey, William S. (diploma indorsed)	San Luis Obispo.
<b>3</b> ,	
SAN FRANCISCO COUNTY.	
Adams, Q. L.	San Francisco
Austin, H.	San Francisco.
Austin, H. Baynes, H. F. (diploma indorsed)	San Francisco. San Francisco.
Austin, H. Baynes, H. F. (diploma indorsed)	San Francisco. San Francisco. San Francisco.
Austin, H. Baynes, H. F. (diploma indorsed) Boyd, C. W. Bolton, Thomas	San Francisco. San Francisco. San Francisco. San Francisco.
Rrewer R R	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Rrewer R R	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B. Beers, Barrett Bray, Geo. F. I. (examined by Board)	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B. Beers, Barrett Bray, Geo. F. I. (examined by Board) Birge, J. J. Blankman, Wm.	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B. Beers, Barrett Bray, Geo. F. I. (examined by Board) Birge, J. J. Blankman, Wm. Bunnell, E. F.	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B. Beers, Barrett Bray, Geo. F. I. (examined by Board) Birge, J. J. Blankman, Wm. Bunnell, E. F.	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B.  Brewer, B. B.  Beers, Barrett  Bray, Geo. F. I. (examined by Board)  Birge, J. J.  Blankman, Wm.  Bunnell, E. F.  Burns, O. B.  Braisdell John H	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B. Beers, Barrett Bray, Geo. F. I. (examined by Board) Birge, J. J. Blankman, Wm. Bunnell, E. F. Burns, O. B. Braisdell, John H. Burch, Maria A.*	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
Brewer, B. B. Beers, Barrett Bray, Geo. F. I. (examined by Board) Birge, J. J. Blankman, Wm. Bunnell, E. F. Burns, O. B. Braisdell, John H. Burch, Maria A.*	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
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<sup>\*</sup>Deceased.

Cogswell, James L.	San	Francisco
Croome, William Case, Charles E.	San	Francisco
Case, Charles E.	San.	Francisco
Clarke, W. H. Cranz, Louis F.	San	Francisco.
Cranz, Louis F.	San.	Francisco
Conwell, C. C.	San	Francisco.
Coobrana F O	San	Transian
Cummings, J. E. Crossett, E. T.	San	Trancisco
Congret to Th	Son	Francisco,
Craigie, Henry	Con	L'anciett.
Oratgie, Henry	San .	E rancisco,
Cane, Alfred	Dan.	r rancisco,
Conradt, J. H. Coulson, N. T. (diploma indorsed)	gan	Francisco.
Coulson, N. T. (diploma indorsed)	San	Francisco.
Cahill, S. D.	San	Francisco.
Crossett, Truman	San	Francisco.
Curragh, J. M.	San	Francisco.
Card, W. H.	San	Francisco.
Chase, Maurice	San	Francisco.
Christopher, T.	San	Francisco.
Cutlar, R.	San	Francisco.
Cool, W. P.	San	Francisco
Cassilly, John P.		
Case, George A.	San	Francisco
Christensen, G. A.	San	Francisco
Dennis S. W.	San	Francisco
Dontler Ed E	Son	Propoieco
Dentler, Ed. F. Drucker, Wm. E.	San.	Proposes
Decker, Chas. W.	Son	Proposes
Duckett, C. S.	San .	Transier.
Drucker, George J.	Ban .	Francisco.
Dunker, deorge J.	oan :	Trancisco.
Dunbar, L. L. Davis, Henry C. Dyer, J. J.	San .	Trancisco.
Dayis, I dill y O.	Ban :	Francisco.
Dyel, J. J.	oan .	Francisco.
Dutch, William * Dean, G. S.	gan .	r rancisco.
Dean, d. S.	zan :	r rancisco.
Dempster, James	oan .	r rancisco.
Dean, C. O.	gan l	г гацс1800.
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REPORT OF BOARD OF DENTAL EXAMINERS.

Harrison, E. L.	San Francisco.
Harrison, E. L. Hastings, Robert	San Francisco.
Hackett, F. M. Iglehart, T. M.	San Francisco.
Iglehart, T. M.	San Francisco.
Jacobs, B. R.	San Francisco.
Jennin, E. L.	
Kauffing, Louis H.	San Francisco.
Know Henry E	San Francisco
King, L. A. Kemp, Van De, Fred. King, William Z. Knowlton, John S.	San Francisco.
Kemp, Van De, Fred.	San Francisco.
King, William Z.	San Francisco.
Knowlton, John S.	San Francisco.
D0r0, F. F	. San r rancisco.
Lord, Mrs. C. B.	San Francisco.
Lord, Charles C.	San Francisco.
Hutchinson, J. E.	San Francisco.
Lubbock, W. C.	.San Francisco.
Lee, L. A.	San Francisco.
Lundborg, J. A. W. Lightbody, H.	San Francisco.
Lightbody, H.	San Francisco.
Leek, George W.	San Francisco.
Leek, J. G.	San Francisco.
Locke, C. W.	San Francisco.
Lawrence, George O.	San Francisco.
Lightcap, Samuel E. Morffew, Thomas	Son Francisco.
Moulton, Calvin R.	San Francisco.
Myers, Oliver P.	Son Proposeco.
Mynes, Covers	Son Francisco.
Monroe, George Maunder, Philip.	San Francisco.
Monre C	San Francisco.
Moore, C. Morton, Henry R.	San Francisco.
McKenzie, A. W.	San Francisco.
Matthews, James	San Francisco.
Massie H C	San Francisco
Malech, T. G.	San Francisco.
Morton, H. R., Jr.	San Francisco.
Mancilla, Maguel	San Francisco.
Mendes, Charles	San Francisco.
Mendes, Charles Materne, Charles F. (diploma indorsed)	San Francisco.
Maldonado, E. (diploma indorsed)	San Francisco.
McDonald, G. W. (diploma indorsed)	San Francisco.
Newmann, L.	San Francisco
	.Dan Plancisco.
Newton, Stanley D. (examined by Board)	San Francisco.
Payne, Eugene (diploma indorsed)	San Francisco. San Francisco.
Newton, Stanley D. (examined by Board).  Payne, Eugene (diploma indorsed).  Pearce, T. B.	San Francisco. San Francisco. San Francisco.
Newton, Stanley D. (examined by Board).  Payne, Eugene (diploma indorsed).  Pearce, T. B.  Price, W. E.	San Francisco. San Francisco. San Francisco. San Francisco. San Francisco.
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McDonald, G. W. (diploma indorsed)  Newmann, L.  Newton, Stanley D. (examined by Board)  Payne, Eugene (diploma indorsed)  Pearce, T. B.  Price, W. E.  Park, E. E.  Peel, Jonathan	
Perry. Chas. A	San Francisco.
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Perry, Chas. A. Proll, R. B. Post. Chas. E. (diploma indersed)	San Francisco. San Francisco. San Francisco.
Perry, Chas. A. Proll, R. B. Post. Chas. E. (diploma indersed)	San Francisco. San Francisco. San Francisco.
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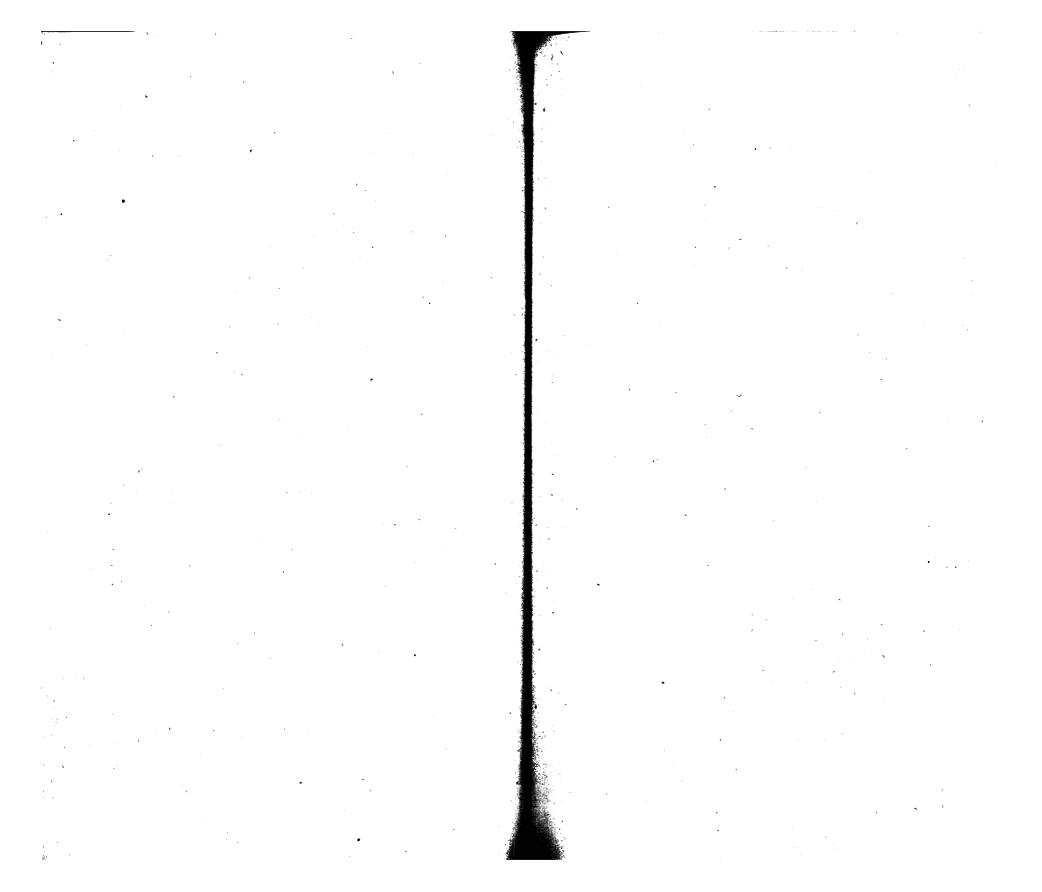
<sup>\*</sup> Deceased.

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Stevens. Henry H	Sar	ı Francisc
Sanger, I	San	i Francisc
Spence, Stuart J.	Sar	ı Francisc
Sheets, H. Clay	San San	ı Francisc
Sandford, L. N	Sar	ı Francisc
Stanley, W. H	Sar J. Sar	i Francisc
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Winter, J. W		ı Francisc
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Barrett, C. J.		Red Bluff.
Sehorn, W. A.		Red Bluff.
	TULARE COUNTY.	
Asay, J. L.	Ĺ,	Visalia.
Asay, C. E.		Visalia.
Cooper, E. M.		Visalia.
Hunsaker, G. W.		Tulare.
Martin, Todd		Tulare.
	VENTURA COUNTY.	
Badgley, A		Ventura.
Hedrick, Lyman		Ventura.
Staire. J. M. (diploma indorsed)		Ventura.
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## BIENNIAL REPORT

OF THE

## STATE BOARD OF FISH COMMISSIONERS

OF THE

## STATE OF CALIFORNIA,

FOR THE

YEARS 1888-1890.

#### COMMISSIONERS.

JOSEPH ROUTIER, Sacramento, President. J. DOWNEY HARVEY, San Francisco, Secretary. CHARLES JOSSELYN, San Francisco.



#### SA'CRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

#### REPORT.

To Hon. R. W. WATERMAN, Governor of the State of California:

Sir: The undersigned have the honor hereby to present their Second Biennial Report relative to the fish industry of the State.

The fish interests of the State are in a comparatively satisfactory

condition.

The spring run of salmon for 1889 was fair, as was also that of 1890. The fall run of 1889 showed improvement over that of the previous years. The supply of shad continues to be large. Carp is found in large quantities in all the waters of the State: they are not a desirable food fish. Sturgeon continues to diminish every year, owing to the indiscriminate slaughter waged upon them by Chinese fishermen. Special efforts have been made to stock the rivers and lakes with the various species of trout. In these efforts we have been quite successful, as evidenced by the astonishment of many at finding them abundant in streams to which they had for years been strangers. This will appear more pointedly in the report of the Superintendent of Hatcheries. Black bass have been distributed in different places throughout the State. The increase of this fish at Crystal Springs, San Mateo County, has been rapid, and is the source from which our supply has been obtained. Catfish have developed into popular favor, and are plentiful in most of the waters of the State.

#### SEALS AND SEA LIONS.

We respectfully repeat the recommendations of the last report of the Fish Commissioners, as follows: These aquatic animals are a serious detriment to the fish interests of the State. They sit at the entrance of Golden Gate as royal toll gatherers, and take the lion's share of the schools of the finny tribe as they pass from the broad Pacific into the bay of San Francisco, preparatory to an ascent of our rivers. In the opinion of the Commission, they are great destroyers of the salmon. They appear to be more numerous at Seal Rock and around the entrance of San Francisco Bay than in former years, owing, no doubt, to the fact that the fishermen have driven them with their nets from Suisun and San Pablo Bays. They not only guard the entrance of San Francisco Bay, but are found at the entrance of Monterey, Bolenas, Point Arena, Tomales, and Shoalwater Bays. This and former Commissions and the public press have repeatedly invoked legislative action to prevent the immense destruction of fish constantly going on and increasing by these worthless animals. It is highly important to our citizens to have the bod of which they are so deprived, and in their behalf remedial legisation is again urgently demanded.

#### STEAM LAUNCH.

The steam launch "Governor Stoneman," constructed at a cost of ver \$4,000, was found useless for the service for which it was intended.

In the interest of economy and an efficient service, and in response to an Act of the Legislature, we disposed of it for the sum of \$1,100, which money is in the State Treasury for the purchase of other boats suited to economical use in quest of persons engaged in illegal fishing.

#### HATCHERIES.

The Shebley Hatchery has been abandoned, the supply of water being inadequate. The Hat Creek Hatchery has been abandoned, and it is the desire of the Commission that the Legislature provide for its removal to a more desirable location. The Sisson Hatchery has been a great success. A new hatchery has also been constructed at Lake Tahoe. The details relating to all these hatcheries, will be found in the report of the Superintendent of Hatcheries. The United States Fish Commission have furnished us with all the eyed salmon eggs it is possible for us to handle, for which they are entitled to the thanks of every person in the State.

#### FISH LADDERS.

Fish ladders have been built in most places where necessary, but many are not properly built, are not kept in repair, and are to a considerable extent inefficient, owing to the fact that the Board has no appropriation from which to defray the expenses of construction.

The last Legislature appropriated \$500 for the removal of obstructions at Salmon Falls, in the American River. This has been successfully accomplished.

#### LICENSES.

The amount received from sales of licenses to fishermen for last year exceeds the sum received for sales of the previous year. The receipts were as follows:

#### LICENSES FOR THE YEAR 1888.

					<u> </u>		
Received of Controller.	Class.	Value of Each.	On Hand March 31, 1889.	Sold during the Year.	Total Value of Licenses Sold.	Commissions Allowed for Collecting.	Net Amount due the State.
700 100 100 100 5	A B C D E	\$5 00 7 50 10 00 12 50 15 00	208 93 83 77 4	492 7 17 23 1	\$2,485 00 52 50 170 00 287 50 15 00	\$300 01 7 87 25 50 43 12 2 25	\$2,184 99 44 63 144 50 244 38 12 75
Total, 1,005			465	540	\$3,010 00	\$378 75	\$2,631 25

#### LICENSES FOR THE YEAR 1889.

Received of Controller.	Class.	Value of Each.	On Hand March 31, 1890.	Sold during the Year.	Total Value of Licenses Sold.	Commissions Allowed for Collecting.	Net Amount due the State.
775 50 50 52 1	A B C D E	\$5 00 7 50 10 00 12 50 15 00	19 35 28 26	756 15 22 26 1	\$3,780 00 112 50 220 00 325 00 15 00	\$356 25 16 87 31 50 48 75 2 25	\$3,423 76 95 63 188 50 276 25 12 75
Total, 928			108	820	\$4,452 50	<b>\$4</b> 55 62	\$3,996 8

#### APPROPRIATIONS.

The last Legislature appropriated \$20,000, one half of which was to be used for support in each of the forty-first and forty-second fiscal years. The expenditures made will be found in the proper place herein. The sum of \$2,000 was appropriated for the purchase and importation of certain game birds into the State. The Board has so far been unable to obtain most of the species named in the Act, but hopes yet to secure them. Some quantities of Chinese quail and Oregon pheasants have been purchased and distributed in accessible localities. These quail have propagated already fairly well, and supplies can soon be had from them for other localities, as required. The \$2,000 appropriated for the prosecution of violators of the fish laws has been expended, and was insufficient to defray the costs of prosecutions.

The Oregon pheasants can only be had by sending agents there to buy them in person, and they cannot be had at less than about \$15 per pair. So far only forty pairs have been secured. The cost of the Chinese quail is about \$20 per hundred. We have obtained about one thousand three hundred so far. These have been distributed pretty widely throughout the State. The amount so far drawn from the appropriations for game birds is \$1,500, of which up to this time the sum of \$1,020 has been expended.

#### COUNTY GOVERNMENT BILL.

Section 38 of the Act of March 16, 1889, amending the County Government Act, authorizing the Boards of Supervisors to fix the size of fish net meshes, should be repealed. If one county has one law, and another county another one, it renders it impossible for violators of the law to be punished, and the law thereby becomes inoperative. One county has already fixed the size of meshes for fishing at four inches, instead of the seven and one half inches prescribed by the statutes.

If the Legislature should agree with the recommendations of the Superintendent of Hatcheries for the creation of more hatcheries, the appropriation he asks for, or more, may be necessary. We recommend an appropriation of \$10,000 for patrol purposes. If illegal fishing is to be prohibited, men enough to patrol the rivers must be had; otherwise, illegal fishing will go on as usual with impunity.

#### FOOD FISHES.

In its proper place herein will be found an interesting and instructive paper on the food fishes of this State from the pen of Dr. C. H. Eigenmann, who is regarded as authority upon that subject; also, a letter from Dr. H. W. Harkness, President of the California Academy of Sciences.

#### WIRE SCREENS FOR IRRIGATION DITCHES.

The millions upon millions of fish, large and small, that pass into the pen heads of irrigating ditches, only to die when the water becomes thausted, will decimate the fish supply faster than it can be restored on all the hatcheries in the State, in those localities where irrigation largely in use. This has rendered necessary in some of the States enactment of laws requiring the use of close-meshed wire screens at

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the entrance to all irrigating ditches in the State. What is necessary elsewhere, is indispensable here, and we recommend the passage of a law here similar to the following law in the State of Wyoming upon this subject:

Any person or persons, corporation or corporations owning in whole or in part, or leasting, operating, or having in charge any mill-race, irrigating ditch, or canal, taking or receiving its water from any river, creek, or stream in this territory in which fish has been placed or may exist, shall put or cause to be placed and maintained over the inlet of such ditch, canal, or mill-race a wire screen of such construction, fineness, strength, or quality as shall prevent any such fish from entering such ditch, canal, or mill race, when requested to do so by the Fish Commissioner.

Any person or persons, corporation or corporations violating the provisions of the preceding section, or who shall neglect or refuse to provide, put up, and maintain such screen, in accordance with the provisions of the preceding section, shall be guilty of a misdemeanor, and on conviction thereof shall be punished by a fine of not less than ten dollar, and not more than one hundred dollars, or by imprisonment in the county jail not exceeding thirty days for each offense; provided, that the continuance by any person of such neglect or refusal from day to day after notification in writing shall constitute a separate and distinct offense for each and every day of the continuance of such neglect or refusal; provided further, that no offense shall be committed by reason of such screen not over the inlet of any ditch, canal, or mill-race when water is not entering the same.

#### LAWS RECOMMENDED.

We desire to renew the recommendations contained in our last biennial report, to wit:

"The close season for salmon should be enlarged. It is now between the thirtieth day of August and the first day of October. It should be from the first day of August to the first day of October. The Commission earnestly recommends legislative remedial action to prevent the destruction of fish by seals and sea lions. We further recommend that the License Act be amended so as to declare the penalty for its violation. We also recommend that a law be passed providing for the confiscation and destruction of all unlawful nets, seines, and traps of any description found in use. The possession of fish out of season, or fish of under size, should be made a misdemeanor. Some legislation should be had regarding the taking of immature fish, and defining 'immature fish,' at least so far as it concerns salmon, shad, sturgeon, and trout."

#### DEER.

We recommend that the killing of deer be prohibited absolutely for the next two years, and also the having in possession the skin of any deer for the same time. This is rendered necessary because of the great loss of these animals during the extremely severe weather of the last two winters, as well as their indiscriminate slaughter in some localities by hunters who defy the law with impunity. With these men, nothing save the heavy hand of the law can be made effective.

JOSEPH ROUTIER,
J. DOWNEY HARVEY,
Fish Commissioners.

#### EXPENDITURES

During the Fortieth Fiscal Year, ending June 30, 1889, chargeable against the Appropriation for the Restoration and Preservation of Fish in the waters of the State.

#### By Expenditures.

Warrant No. 468—To O. P. Egbert, supplies	
No. 469—To W. E. Elliott, salary	
No. 470—To John Howard, salary and expenses 56 50	
No. 471—To Goldberg, Bowen & Co., supplies 37 06	
	173 61
Balance on hand from thirty-ninth year	\$131 32
By appropriation (Statutes of California, page 215)	3,750 00

#### Bu Expenditures

Warrant No. 2226—To J. P. Dalton, salary and expenses	<b>\$240</b> 71	
No. 3085—To J. P. Dalton, salary and expenses	714 90	
No. 3086—To O. P. Egbert, supplies	<b>39 15</b>	
No. 3088—To Goldberg, Bowen & Co., supplies	12 38	
No. 3086—To O. P. Egbert, supplies  No. 3088—To Goldberg, Bowen & Co., supplies  No. 3089—To J. G. Woodbury, salary and expenses	173 70	
No. 3090—To W. E. Elliott, salary No. 3091—To John Howard, salary	60 00	
No. 3091—To John Howard, salary	50 00	
No. 3092-To Charles Wenzinger, salary	50 00	
No. 5519—To John P. Dalton, salary and expenses	310 00	
No. 5561—To O. P. Egbert, supplies  No. 5562—To Goldberg, Bowen & Co., supplies  No. 6170—To John P. Dalton, salary and expenses  No. 8271—To J. G. Woodbury, salary and expenses	14 30	
No. 5562—To Goldberg, Bowen & Co., supplies	15 52	
No. 6170—To John P. Dalton, salary and expenses	177 50	
No. 8271—To J. G. Woodbury, salary and expenses	156 96	
No. 12294—To John P. Dalton, salary and expenses	216 70	•
No. 12295—To John P. Dalton, salary and expenses	159 85	
No. 12296—To John A. Richardson, salary	75 00	
No. 12297—To E. W. Hunt. salary	45 00	
No. 12297—To E. W. Hunt, salary No. 12298—To J. G. Woodbury, salary and expenses	241 83	5
No. 12299-To J. G. Woodbury, salary and expenses	270 38	
No. 12299—To J. G. Woodbury, salary and expenses No. 12300—To Osborn & Alexander, supplies	20 90	
No. 12301—To O. P. Egbert, supplies	7 15	
No. 12302—To W. H. Schnittger, salary	10 00	
No. 15455—To John P. Dalton, salary and expenses	208 00	
No. 15456—To John P. Dalton, salary and expenses	221 10	•
No. 15777—To Osborn & Alexander, supplies	24 10	
No. 15778—To J. F. Curley, salary	25 00	
No. 16000 To Oghorn & Alexander granling	21 45	
No. 16000—To Osborn & Alexander, supplies  No. 16797—To R. Lauritzen, supplies  No. 16798—To Osborn & Alexander, supplies	5 51	
No. 16709 To Ochorn & Alexander capplies	14 45	
No. 10700 To O. D. Echart campling	25 15	
No. 16799—To O. P. Egbert, supplies  No. 16800—To Goldberg, Bowen & Co., supplies	32 15	
No. 10000—10 Goldberg, Dowell & Co., supplies	5 00	
No. 17054—To James McKenna, salary	11 20	
No. 18249—10 R. Lauritzen, supplies	11 30	
No. 18267—To Osborn & Alexander, supplies	14 10	
No. 18208—To Goldberg, Bowen & Co., supplies	24 60	
No. 18249—To R. Lauritzen, supplies  No. 18267—To Osborn & Alexander, supplies  No. 18268—To Goldberg, Bowen & Co., supplies  No. 18269—To O. P. Egbert, supplies  No. 18270—To John P. Dalton, salary and expenses	37 40	
No. 18270—To John P. Dalton, salary and expenses	126 55	
No. 1286—To O. P. Egbert, supplies (paid in 41st fiscal year).	23 53	
Totals	\$3,881 32	\$3,881 32
- VIGIS	φυ,001 <b>0</b> 2	φυ,004 <i>02</i>

#### EXPENDITURES

Unexpended balance on hand July 1, 1888	ned during	\$851
the thirty-ninth fiscal year: Warrant No. 208—To J. Shebley, salary and expenses	#40 DO	
No. 472—To W. H. Schnittger, salary and expenses	\$69 20 60 00	
No. 472—To W. H. Schnittger, salary and expenses No. 473—To Stevens & McKinny, supplies	200 00	
No. 1628—To J. C. Frazier, labor	93 34	
-		422
Balance on hand from thirty-ninth year		\$429
To appropriation (Statutes of California, 1887, page 215)	4101.00	3,750
Warrant No. 1195—To Henry Woodson, supplies	\$101 30 100 00	
No. 1197—To J. C. Frazier, salary No. 1198—To Stevens & McKinney, supplies	400 00	
No. 1629—To W. H. Shebley, expenses	63 35	
No. 1630—To J. Shebley, salary	93 00	
No. 1630—To J. Shebley, salary No. 3087—To W. H. Shebley, salary	81 30	
No. 3093—To John Hurley, rent	20 🐠	
No. 3094—To J. C. Frazier, salary	118 82	
No. 3095—To W. H. Schnittger, salary No. 5267—To J. G. Woodbury, salary and expenses.	60 00	
No. 5207—10 J. G. Woodbury, salary and expenses	298 18 8 12	
No. 5533—To J. F. Wyman, supplies  No. 5535—To J. C. Frazier, supplies	48 66	
No. 5534—To R. M. Watson, supplies	8 00	
No. 5558—To Sisson Lumber Company, supplies	364 71	
No 5550.—To Sisson Crocker & Co supplies	97 32	
No. 5560—To J. M. Bowles, Jr., supplies.  No. 6163—To J. G. Woodbury, salary and supplies.  No. 6164—To W. C. Gifford, labor.	42 50	
No. 6163—To J. G. Woodbury, salary and supplies	57 70	
No. 6164—To W. C. Gillord, labor	50 00	
No. 6165—To Whittier, Fuller & Co., supplies	13 00 58 65	
No. 6166—To J. H. Sisson, supplies  No. 6167—To W. H. Schnittger, salary  No. 6167—To W. H. Schnittger, salary	5 00	
No. 6168—To Holbrook, Merrill & Stetson, supplies.	17 51	
No. 6168—To Holbrook, Merrill & Stetson, supplies No. 6169—To Sisson Lumber Company, supplies	17 47	
No. 8895—To L. Stone, labor	375 00	
No. 8896—To Sisson, Crocker & Co., supplies	48 00	
No. 8897—To Fred. C. Boyce, labor No. 8898—To E. W. Hunt, salary No. 8899—To Mount Shasta Manufacturing Co., supplies	50 00	
No. 8896—10 E. W. Hunt, Satary	55 65 71 40	
No. 8000—To W. C. Gifford labor	37 50	
No. 8900—To W. C. Gifford, labor No. 8901—To F. C. Boyce, labor	45 00	
No. 8902—To Robert Radcliff, freight.	20 00	
No. 8903—To J. A. Richardson, traveling expenses	85 65	
No. 8904—To J. H. Sisson, supplies	41 30	
No. 8905—To J. C. Frazier, supplies.	112 66	
No. 8906—To J. G. Woodbury, salary and supplies	169 41	
No. 12292—To Edson & Co., supplies No. 12293—To F. C. Boyce, labor	10 65	
No. 12295—To F. U. Boyce, labor	25 00	
No. 16783—To E. W. Hunt, labor No. 16784—To W. H. Schnittger, labor	41 65 10 00	
No. 17015—To I G Woodhury galary and supplies	266 41	
No. 17015—To J. G. Woodbury, salary and supplies No. 17063—To J. A. Richardson, salary and supplies	78 15	
No. 18250—To J. G. Woodbury, salary and supplies.	465 33	
No. 18250—To J. G. Woodbury, salary and supplies No. 18251—To W. H. Schnittger, salary and supplies	10 00	
Balance on hand July 1, 1889	36 04	
Totals	\$4,179 39	\$4,179 8

#### EXPENDITURES

During	the	Fortieth	Fiscal	Year,	ending	June	30,	1889,	chargeable	against	the	Fish	Com-
- •					missio	n Fun	d.		•				

By balance on hand, July 1, 1888 Receipts into the fund, fortieth fiscal year	 \$2,253 82 3,444 23

By  Expenditures.	
Warrant No. 206-To T. W. O'Neil, supplies	- \$240 90
Warrant No. 206—To T. W. O'Neil, supplies No. 207—To L. L. Lewis, supplies	. 3 10
No. 474—To Carquinez Packing Company, supplies	- 12 50 - 121 30
No. 475—To John Ferrin, expenses No. 476—To W. H. Ewing, labor	36 66
No. 472—To John Ferrin, expenses.  No. 475—To John Ferrin, expenses.  No. 476—To W. H. Ewing, labor.  No. 477—To Stevens & Co., supplies.  No. 478—To J. L. Sutton, salary.  No. 479—To Baner & Steffan, supplies.  No. 480—To E. J. Upham & Co., supplies.	59 22
No. 478—To J. L. Sutton, salary	100 00
No. 479—To Bauer & Steffan, supplies	. 765
No. 480—To E. J. Upham & Co., supplies	. 683 . 25 <i>5</i> 0
No. 481—To G. A. Hastings, supplies No. 482—To John S. Benn, traveling expenses	. 10 50
No. 483—To John F. Taggart, salary	50 00
No. 480—To E. J. Upnam & Co., supplies. No. 481—To G. A. Hastings, supplies. No. 482—To John S. Benn, traveling expenses. No. 483—To John F. Taggart, salary No. 484—To Charles Josselyn, money advanced. No. 486—To J. J. Smith, labor. No. 486—To John P. Dalton, salary and expenses. No. 487—To James V. Geary, salary. No. 488—To J. L. Sutton, labor. No. 489—To John Ferrin, salary. No. 597—To T. J. Sherwood, expenses.	. 38 62
No. 485-To J. J. Smith, labor	. 50 00
No. 486—To John P. Dalton, salary and expenses.	. 305 75 . 110 66
No. 487—To James V. Geary, salary No. 488—To J. L. Sutton, labor	50 00
No. 489—To John Ferrin, salary	209 79
No. 1032—To James Clyne, repairs	5 50
No. 1033—To C. D. Dagnol, rent of sloop	152 66 30 10
No. 1187—To J. Routier, traveling expenses	3 10
No. 2999—To Goldberg, Bowen & Co., supplies	9 80
No. 2998—To Mohr & Yoerk, supplies	4 95
No. 1033—10 C. D. Dagnol, rent of sloop.  No. 1187—To J. Routier, traveling expenses.  No. 2997—To L. L. Lewis, supplies.  No. 2999—To Goldberg, Bowen & Co., supplies.  No. 3009—To Mohr & Yoerk, supplies.  No. 3001—To John P. Dalton, expenses.  No. 3001—To Cooper's book store supplies.	11 75
No. 3001—To John P. Dalton, expenses	100 50
No. 3002—To Cooper's book store, supplies	8 50 41 57
No. 6162—To J. G. Woodbury, traveling expenses	208 91
No. 6550-To T. J. Sherwood, traveling expenses	251 15
No. 8891—To John P. Dalton, traveling expenses	151 95
No. 3002—To Cooper's book store, supplies No. 4690—To W. A. Duncombe, rent of sloop. No. 6162—To J. G. Woodbury, traveling expenses No. 6560—To T. J. Sherwood, traveling expenses No. 8891—To John P. Dalton, traveling expenses. No. 8892—To John P. Dalton, supplies No. 8893—To Matt. Coffey, salary No. 8894—To Joseph Routier, expenses. No. 11747—To Lauritzen & Frates, supplies No. 15459—To J. G. Woodbury, salary and expenses No. 15469—To J. G. Woodbury, salary and expenses No. 15728—To E. W. Hunt, salary. No. 15775—To J. A. Richardson, salary. No. 16775—To J. A. Richardson, salary. No. 1676—To T. W. O'Neil, painting. No. 16791—To C. Kolger, salary. No. 16792—To M. J. O'Reilly, salary No. 16792—To M. J. O'Reilly, salary No. 16793—To John P. Dalton, salary and expenses No. 16793—To C. Elliott, salary. No. 16794—To C. Elliott, salary.	15 00
No. 8893—10 Matt. Coney, salary	35 00 91 40
No. 11747—To Lauritzen & Frates, supplies	34 04
No. 15459-To J. G. Woodbury, salary and expenses	239 39
No. 15460—To J. G. Woodbury, salary and expenses	320 04
No. 15728—To E. W. Hunt, salary	45 00
No. 15775—To I. A. Richardson, salary	45 00 75 00
No. 15776—To J. A. Richardson, salary	75 00
No. 16650-To Edward Reilly, salary	91 90
No. 16771—To T. W. O'Neil, painting	196 00
No. 16791—To C. Folger, salary	50 00 1 50
No. 16792—To John P. Delton, salary and expenses	368 10
No. 16794—To C. Elliott, salary	44 85
No. 16795—To G. J. Sculley, salary	41.00
No. 16796-To W. E. Elliot, salary	72 00
No. 17017—To M. J. O'Reilly, salary	· 60 00 37 00
No. 17056—To San Francisco "Daily Report" advertising	40 00
No. 18252—To M. J. O'Reilly, salary	30 00
No. 18253-To J. C. Frazier, salary	107 20
No. 18254—To John F. Moody, supplies	69 10
No. 18255—To C. C. Folger, salary	33 20 50 00
No. 18257.—To Truckee Lumber Company supplies	50 00 113 16
No. 18258—To Carson and Tahoe Lumber Company, supplies	185 16
No. 18259-To J. G. Woodbury	110 00
No. 18260-To E. W. Hunt, salary, etc.	49 50
No. 18261—To U. Elliot, salary, etc.	50 00
No. 16793—To John P. Dalton, salary and expenses No. 16794—To C. Elliott, salary No. 16795—To G. J. Sculley, salary No. 16796—To W. E. Elliot, salary No. 17056—To W. E. Elliot, salary No. 17017—To M. J. O'Reilly, salary No. 17056—To San Francisco "Daily Report," advertising No. 18252—To M. J. O'Reilly, salary No. 18252—To M. J. O'Reilly, salary No. 18253—To J. C. Frazier, salary No. 18254—To John F. Moody, supplies No. 18255—To C. C. Folger, salary No. 18256—To G. J. Sculley, salary No. 18256—To G. J. Sculley, salary No. 18256—To Truckee Lumber Company, supplies No. 18259—To J. G. Woodbury No. 18260—To E. W. Hunt, salary, etc. No. 18261—To C. Elliot, salary, etc.	100 00
Amounts carried forward	\$5,393 16

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7	1	

REPORT OF STATE BOARD OF FISH COMMISSI	ONERS.	3	REPORT OF STATE BOARD OF FISH COMMISS		
Amounts brought forward	\$5,393 16	\$5,698 (	Amounts brought forward	\$3,434 27	\$5,000
To. 18263-To Thomas H. Powers, salary, etc.	· 40 00	· · ·	No. 5150—To Joseph Routier, expenses	31 00	40,000
lo. 18264—To Westgate, Dozier & Co., supplies	<b>27 34</b>		No. 5150—To Joseph Routier, expenses	114 65	
Io. 18265—To W. E. Elliot, salary	68 00		No. 5126—To M. J. O'Reilly, expenses	11 45	
Vo. 18266—To Edward Reilly, salary	150 50	4		108 05	
ace on hand July 1, 1889	19 05			100 00	
		7		152 05	
tals	\$5,698 05	\$5,698 n	No. 6475—To E. Reilly, salary	32 20	
vwin	40,000 00	401000 (6)	No. 6505—To M. J. O'Reilly, salary and expenses		
			No. 6749—To J. Downey Harvey, expenses	147 95	
			No. 6750—To Joseph Routier, expenses	147 35	
			No. 6751—To C. H. Bogart, expenses	16 70	
EXPENDITURES		3	No. 6752—To C. E. Grunsky, salary	11 10	
MAI EMDII O KIMB		- 8	No. 6753—To F. Anaya, salary	62 80	
on the Forte first Finest Venn anding June 90 1000 shanneable as	ainst the An	manusiasia.	No. 6754—To F. P. Callundan, salary	100 00	
ng the Forty-first Fiscal Year, ending June 30, 1890, chargeable ag for the Restoration and Preservation of Fish in the waters	of the State	DI ODI MANNE	No. 6755—To H. F. Williams, salary	50 00	
for the Restoration and Preservation of Fish in the waters	oj ine sime.		No. 6756—To John F. Curley, expenses	109 60	
namon winting (Statuton of California 1990, name 499)		95 000 M	No. 6756—To John F. Curley, expenses No. 6757—To James H. Carothers, expenses	10 00	
ppropriation (Statutes of California, 1889, page 438)		\$5,000 m	No. 6758—To John P. Dalton, expenses	24 41	•
			No. 7437-To C. W. Thorrold, salary		
By Expenditures.			No. 7438—To F. P. Callundan, salary and expenses		
			No. 7490 To F. A new colony and expenses		
rant No. 1280-To John P. Dalton, salary and supplies	<b>\$</b> 62 50	#	No. 7439—To F. Anaya, salary and expenses No. 7930—To M. J. O'Reilly, salary and expenses	32 55	
Vo. 1284—To Frank Anaya, salary and expenses	77 50	1	No. 7930—To M. J. O'Reilly, salary and expenses	100.00	•
io. 1285—To M. J. O'Reilly, salary	2 00	•	No. 8354—To E. Reilly, salary	100 00	•
o. 1287—To Henry Mathey, expenses	122 10		No. 8407—To F. Anaya, salary and expenses	12 70	
In 9919 To Edward Railly salary and amanga	193 85		No. 8408—To J. Downey Harvey, expenses	500	
Vo. 2219—To Edward Reilly, salary and expenses	70 00		No. 8409—To Joseph Routier, expenses	30 00	
Vo. 2478—To T. W. O'Neil, painting	30 00	· · · · · · · · · · · · · · · · · · ·	No. 11314—To M. J. O'Reilly, salary	30 00	
No. 2486—To M. J. O'Reilly, salary	90 00		No. 13169—Wells, Fargo & Co., expressage	6 15	
No. 2487—To R. Lauritzen, supplies	20 33		No. 13169—Wells, Fargo & Co., expressage Balance on hand June 30, 1890	2 27	
No. 2488—To Osborn & Alexander, supplies	14 45		,		
No. 2489—To Goldberg, Bowen & Co., supplies	12 38		Totals	\$5,000 00	\$5,000
Vo. 2490—To O. P. Egbert, supplies	สักษอ		10000	4-7	11.7
	07 34	- 3	·		
No. 2491—To John P. Dalton, supplies					
No. 2491—To John P. Dalton, supplies	100 00				
No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary	100 00 10 00		EXPENDITURES		
No. 2491—To John P. Dalton, supplies	10 00		EXPENDITURES		•
No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary	50 00			gainst the App	propriat
No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary	50 00			gainst the App	propriat
NO. 2491—To John P. Dalton, supplies  NO. 2492—To John P. Dalton, salary  NO. 2493—To John P. Dalton, rent  NO. 2494—To G. J. Sculley, salary  NO. 2495—To W. Lamonte, salary  NO. 2496—To John Howard, salary	50 00 28 00 36 65		EXPENDITURES  During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri	gainst the App %.	propriat
No. 2491—To John F. Dalton, supplies  No. 2492—To John P. Dalton, salary  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2495—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2497—To W. E. Elliott, salary	50 00 28 00 36 65 60 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri		
No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2495—To W. Lamonte, salary No. 2496—To John Howard, salary No. 2497—To W. E. Elliott, salary No. 2498—To C. B. Elliott salary	50 00 28 00 36 65 60 00 50 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri.  Unexpended balance on hand July 1, 1889 Warrants issued during the forty-first fiscal year for services per-		
NO. 2491—To John P. Dalton, supplies  NO. 2492—To John P. Dalton, salary  NO. 2493—To John P. Dalton, rent  NO. 2494—To G. J. Sculley, salary  NO. 2495—To W. Lamonte, salary  NO. 2496—To John Howard, salary  NO. 2497—To W. E. Elliott, salary  NO. 2498—To C. B. Elliott, salary	50 00 28 00 36 65 60 00 50 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri Unexpended balance on hand July 1, 1889. Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:		
No. 2491—To John P. Dalton, supplies  No. 2493—To John P. Dalton, salary  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2495—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2497—To W. E. Elliott, salary  No. 2498—To C. B. Elliott, salary  No. 2499—To C. Higgins, salary  No. 2490—To C. Higgins, salary  No. 3375—To J. M. Sullivan, salary and expenses	50 00 28 00 36 65 60 00 50 00 26 00 172 44		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri Unexpended balance on hand July 1, 1889. Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:		
No. 2491—To John P. Dalton, supplies No. 2493—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2495—To W. Lamonte, salary No. 2496—To John Howard, salary No. 2497—To W. E. Elliott, salary No. 2498—To C. B. Elliott, salary No. 2499—To C. Higgins, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri Unexpended balance on hand July 1, 1889 Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor	\$5 <b>00</b>	
No. 2491—To John P. Dalton, supplies  No. 2492—To John P. Dalton, salary  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2496—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2497—To W. E. Elliott, salary  No. 2499—To C. B. Elliott, salary  No. 3499—To C. Higgins, salary  No. 3375—To J. M. Sullivan, salary and expenses  No. 3376—To J. M. Sullivan, salary and expenses  No. 3377—To Edward Reilly, salary and expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri Unexpended balance on hand July 1, 1889. Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:	\$5 <b>00</b>	<b>\$3</b> 6
NO. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2496—To W. Lamonte, salary No. 2496—To John Howard, salary No. 2497—To W. E. Elliott, salary No. 2498—To C. B. Elliott, salary No. 2499—To C. Higgins, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri Unexpended balance on hand July 1, 1889 Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor	\$5 <b>00</b>	<b>\$3</b> 6
No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2496—To C. B. Elliott, salary No. 2499—To C. Higgins, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3377—To Edward Reilly, salary and expenses No. 3378—To J. W. Hughes, professional services No. 3379—To M. J. O'Reilly, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889. Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor	\$5 00 30 75	\$36 85
No. 2491—To John P. Dalton, supplies  No. 2492—To John P. Dalton, salary  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2496—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2496—To W. E. Elliott, salary  No. 2498—To C. B. Elliott, salary  No. 2499—To C. Higgins, salary  No. 3375—To J. M. Sullivan, salary and expenses  No. 3375—To J. M. Sullivan, salary and expenses  No. 3376—To J. W. Hughes, professional services  No. 3379—To M. J. O'Reilly, salary  No. 3379—To M. J. O'Reilly, salary  No. 3379—To M. J. O'Reilly, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889. Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor	\$5 00 30 75	\$36 
No. 2491—To John P. Dalton, supplies  No. 2492—To John P. Dalton, salary  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2495—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2497—To W. E. Elliott, salary  No. 2499—To C. B. Elliott, salary  No. 2499—To C. Higgins, salary  No. 3375—To J. M. Sullivan, salary and expenses  No. 3376—To J. M. Sullivan, salary and expenses  No. 3378—To J. W. Hughes, professional services  No. 3379—To M. J. O'Reilly, salary  No. 3380—To M. J. O'Reilly, expenses  No. 3380—To M. J. O'Reilly, expenses  No. 3765—To John P. Dalton, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri Unexpended balance on hand July 1, 1889 Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor	\$5 00 30 75	\$36 
NO. 2491—To John P. Dalton, supplies NO. 2492—To John P. Dalton, salary NO. 2493—To John P. Dalton, rent NO. 2494—To G. J. Sculley, salary NO. 2495—To W. Lamonte, salary NO. 2496—To John Howard, salary NO. 2496—To John Howard, salary NO. 2497—To W. E. Elliott, salary NO. 2499—To C. B. Elliott, salary NO. 2499—To C. Higgins, salary NO. 3375—To J. M. Sullivan, salary and expenses NO. 3376—To J. M. Sullivan, salary and expenses NO. 3378—To J. W. Hughes, professional services NO. 3379—To M. J. O'Reilly, salary NO. 3380—To M. J. O'Reilly, expenses NO. 3395—To M. J. O'Reilly, expenses NO. 3765—To John P. Dalton, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889. Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor	\$5 00 30 75	\$36 
NO. 2491—To John P. Dalton, supplies  NO. 2493—To John P. Dalton, salary  NO. 2493—To John P. Dalton, rent  NO. 2494—To G. J. Sculley, salary  NO. 2496—To W. Lamonte, salary  NO. 2496—To John Howard, salary  NO. 2497—To W. E. Elliott, salary  NO. 2498—To C. B. Elliott, salary  NO. 2499—To C. Higgins, salary  NO. 3375—To J. M. Sullivan, salary and expenses  NO. 3376—To J. M. Sullivan, salary and expenses  NO. 3378—To Edward Reilly, salary and expenses  NO. 3378—To J. W. Hughes, professional services  NO. 3379—To M. J. O'Reilly, salary  NO. 3380—To M. J. O'Reilly, salary  NO. 3360—To M. J. O'Reilly, salary  NO. 3765—To John P. Dalton, salary  NO. 3766—To John P. Dalton, salary  NO. 3766—To John P. Dalton, expenses	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 5 00 5 75 100 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheric Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).	\$5 00 30 75	\$36
NO. 2491—To John P. Daiton, supplies  NO. 2492—To John P. Dalton, salary  NO. 2493—To John P. Dalton, rent  NO. 2494—To G. J. Sculley, salary  NO. 2495—To W. Lamonte, salary  NO. 2496—To John Howard, salary  NO. 2496—To C. B. Elliott, salary  NO. 2499—To C. B. Elliott, salary  NO. 2499—To C. Higgins, salary  NO. 3375—To J. M. Sullivan, salary and expenses  NO. 3375—To J. M. Sullivan, salary and expenses  NO. 3377—To Edward Reilly, salary and expenses  NO. 3378—To J. W. Hughes, professional services  NO. 3379—To M. J. O'Reilly, salary  NO. 3380—To M. J. O'Reilly, salary  NO. 3765—To John P. Dalton, salary  NO. 3766—To John P. Dalton, expenses  NO. 3766—To John P. Dalton, expenses  NO. 3767—To John P. Dalton, expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 10 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheric Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.	\$5 00 30 75	\$36 
No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2496—To W. Lamonte, salary No. 2496—To W. Lamonte, salary No. 2496—To John Howard, salary No. 2496—To C. B. Elliott, salary No. 2498—To C. B. Elliott, salary No. 3476—To J. M. Sullivan, salary and expenses No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3378—To J. W. Hughes, professional services No. 3379—To M. J. O'Reilly, salary No. 3390—To M. J. O'Reilly, expenses No. 3765—To John P. Dalton, salary No. 3766—To John P. Dalton, expenses No. 3767—To John P. Dalton, expenses No. 3767—To John P. Dalton, expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheric Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.	\$5 00 30 75	\$36
No. 2491—To John P. Dalton, supplies Vo. 2492—To John P. Dalton, salary Vo. 2493—To John P. Dalton, rent Vo. 2494—To G. J. Sculley, salary Vo. 2495—To W. Lamonte, salary Vo. 2496—To John Howard, salary Vo. 2496—To John Howard, salary Vo. 2496—To C. B. Elliott, salary Vo. 2498—To C. B. Elliott, salary Vo. 2499—To C. Higgins, salary Vo. 3375—To J. M. Sullivan, salary and expenses Vo. 3376—To J. M. Sullivan, salary and expenses Vo. 3378—To J. W. Hughes, professional services Vo. 3379—To M. J. O'Reilly, salary Vo. 3380—To M. J. O'Reilly, salary Vo. 3380—To M. J. O'Reilly, salary Vo. 3765—To John P. Dalton, expenses Vo. 3765—To John P. Dalton, expenses Vo. 3767—To John P. Dalton, expenses Vo. 3874—To Frank Anaya, expenses Vo. 3875—To John P. Dalton, expenses	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheric Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.	\$5 00 30 75	\$36
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2495—To W. Lamonte, salary 10. 2496—To John Howard, salary 10. 2496—To John Howard, salary 10. 2496—To W. E. Elliott, salary 10. 2499—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3376—To J. W. Hughes, professional services 10. 3379—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, salary 10. 3380—To John P. Dalton, expenses 10. 3765—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3874—To Frank Anaya, expenses 10. 3874—To Frank Anaya, expenses 10. 3876—To J. Downey Harvey, expenses 10. 3876—To J. Downey Harvey, expenses	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 30 00 5 75 100 00 124 77 271 15 14 00 108 65		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.	\$5 00 30 75 	\$36 
No. 2491—To John P. Dalton, supplies  No. 2492—To John P. Dalton, rent  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2495—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2496—To W. E. Elliott, salary  No. 2499—To C. B. Elliott, salary  No. 3499—To C. Higgins, salary  No. 3375—To J. M. Sullivan, salary and expenses  No. 3375—To J. M. Sullivan, salary and expenses  No. 3376—To J. W. Hughes, professional services  No. 3379—To M. J. O'Reilly, salary  No. 3389—To M. J. O'Reilly, salary  No. 3765—To John P. Dalton, salary  No. 3765—To John P. Dalton, expenses  No. 3767—To John P. Dalton, expenses  No. 3767—To John P. Dalton, expenses  No. 3876—To John P. Dalton, expenses  No. 3875—To J. Downey Harvey, expenses  No. 3876—To J. Downey Harvey, expenses  No. 3876—To J. Deph Routier, traveling expenses  No. 3876—To J. P. Egbert, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.	\$5 00 30 75 	\$36
No. 2491—To John P. Dalton, supplies  No. 2492—To John P. Dalton, rent  No. 2493—To John P. Dalton, rent  No. 2494—To G. J. Sculley, salary  No. 2495—To W. Lamonte, salary  No. 2496—To John Howard, salary  No. 2496—To W. E. Elliott, salary  No. 2499—To C. B. Elliott, salary  No. 3499—To C. Higgins, salary  No. 3375—To J. M. Sullivan, salary and expenses  No. 3375—To J. M. Sullivan, salary and expenses  No. 3376—To J. W. Hughes, professional services  No. 3379—To M. J. O'Reilly, salary  No. 3389—To M. J. O'Reilly, salary  No. 3765—To John P. Dalton, salary  No. 3765—To John P. Dalton, expenses  No. 3767—To John P. Dalton, expenses  No. 3767—To John P. Dalton, expenses  No. 3876—To John P. Dalton, expenses  No. 3875—To J. Downey Harvey, expenses  No. 3876—To J. Downey Harvey, expenses  No. 3876—To J. Deph Routier, traveling expenses  No. 3876—To J. P. Egbert, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies.  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.  No. 2503—To E. W. Hunt, salary and expenses.	\$5 00 30 75 30 75 \$5 00 78 50 100 50 61 50	\$36
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2495—To W. Lamonte, salary 10. 2496—To John Howard, salary 10. 2496—To John Howard, salary 10. 2496—To C. B. Elliott, salary 10. 2499—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3376—To J. W. Hughes, professional services 10. 3379—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, expenses 10. 3765—To John P. Dalton, salary 10. 3766—To John P. Dalton, expenses 10. 3766—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3874—To Frank Anaya, expenses 10. 3874—To Frank Anaya, expenses 10. 3875—To J. Downey Harvey, expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3877—To O. P. Egbert, supplies 10. 3878—To R. Lauritzen, supplies	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 30 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 14 45	e de describe de describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la describe de la desc	During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889	\$5 00 30 75 \$5 00 78 50 100 50 61 50 33 00	\$36 
10. 2491—To John P. Dalton, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 17 80		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889	\$5 00 30 75 \$5 00 78 50 100 50 61 50 33 00	\$36 
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2496—To W. Lamonte, salary 10. 2496—To W. Lamonte, salary 10. 2496—To W. E. Elliott, salary 10. 2498—To C. B. Elliott, salary 10. 2498—To C. B. Elliott, salary 10. 3875—To J. M. Sullivan, salary and expenses 10. 3876—To J. M. Sullivan, salary and expenses 10. 3876—To J. M. Sullivan, salary and expenses 10. 3878—To J. W. Hughes, professional services 10. 3879—To M. J. O'Reilly, salary 10. 3879—To M. J. O'Reilly, expenses 10. 3765—To John P. Dalton, salary 10. 3766—To John P. Dalton, expenses 10. 3766—To John P. Dalton, expenses 10. 3876—To John P. Dalton, expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3878—To R. Lauritzen, supplies 10. 3879—To Osborn & Alexander, supplies 10. 3880—To W. Lamont, salary 10. 3880—To W. Lamont, salary 10. 3880—To W. Markham, salary 10. 3880—To W. Markham, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 17 80 17 80		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies.  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.  No. 2504—To Truckee Lumber Co., supplies.  No. 2505—To Fireman's Fund Insurance Co., insurance.  No. 3884—To J. G. Woodbury, salary and expenses	\$5 00 30 75 	\$36 
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2495—To W. Lamonte, salary 10. 2496—To John Howard, salary 10. 2496—To John Howard, salary 10. 2496—To U. E. Elliott, salary 10. 2499—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3376—To J. W. Hughes, professional services 10. 3379—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, expenses 10. 3765—To John P. Dalton, expenses 10. 3765—To John P. Dalton, expenses 10. 3766—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3874—To Frank Anaya, expenses 10. 3874—To Frank Anaya, expenses 10. 3875—To J. Downey Harvey, expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3878—To R. Lauritzen, supplies 10. 3879—To R. Lauritzen, supplies 10. 3880—To W. Lamont, salary 10. 3881—To W. Markham, salary 10. 3882—To G. J. Sculley, salary 10. 3882—To G. J. Sculley, salary	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 30 00 124 77 271 15 14 00 108 65 87 60 17 80 14 45 40 00 50 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889	\$5 00 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50	\$36 
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2495—To W. Lamonte, salary 10. 2496—To John Howard, salary 10. 2496—To John Howard, salary 10. 2496—To W. E. Elliott, salary 10. 2499—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3376—To J. W. Hughes, professional services 10. 3379—To Edward Reilly, salary 10. 3380—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, expenses 10. 3765—To John P. Dalton, salary 10. 3766—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3874—To Frank Anaya, expenses 10. 3874—To Frank Anaya, expenses 10. 3876—To J. Downey Harvey, expenses 10. 3876—To J. Downey Harvey, expenses 10. 3878—To R. Lauritzen, supplies 10. 3879—To O. P. Egbert, supplies 10. 3880—To W. Lamont, salary 10. 3881—To W. Lamont, salary 10. 3881—To W. Markham, salary 10. 3882—To G. J. Sculley, salary	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 30 00 124 77 271 15 14 00 108 65 87 60 17 80 14 45 40 00 50 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889	\$5 00 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50	\$36
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2495—To W. Lamonte, salary 10. 2496—To John Howard, salary 10. 2496—To John Howard, salary 10. 2496—To G. B. Elliott, salary 10. 2499—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3376—To J. W. Hughes, professional services 10. 3378—To J. V. Hughes, professional services 10. 3380—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, salary 10. 3765—To John P. Dalton, salary 10. 3765—To John P. Dalton, expenses 10. 3765—To John P. Dalton, expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3878—To R. Lauritzen, supplies 10. 3879—To R. Lauritzen, supplies 10. 3880—To W. Lamont, salary 10. 3881—To W. Markham, salary 10. 3881—To W. Markham, salary 10. 3882—To G. J. Sculley, salary 10. 3883—To W. E. Elliot, salary	10 00 50 00 28 00 36 65 60 00 50 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 17 40 50 00 50 00 60 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcheri.  Unexpended balance on hand July 1, 1889  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year  By appropriation (Statutes of California, 1889, page 438)  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary  No. 2501—To J. A. Richardson, salary and expenses  No. 2502—To J. C. Frazier, salary and expenses  No. 2503—To E. W. Hunt, salary and expenses  No. 2504—To Truckee Lumber Co., supplies  No. 3805—To Fireman's Fund Insurance Co., insurance  No. 3885—To J. G. Woodbury, salary and expenses  No. 3886—To J. G. Woodbury, salary and expenses  No. 3886—To J. G. Woodbury, salary and expenses  No. 3886—To J. G. Frazier, salary and expenses  No. 3887—To J. C. Frazier, salary and expenses  No. 3887—To J. C. Frazier, salary and expenses	\$5 00 30 75 	\$36
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2496—To W. Lamonte, salary 10. 2496—To W. Lamonte, salary 10. 2496—To W. E. Elliott, salary 10. 2498—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3378—To M. Sullivan, salary and expenses 10. 3379—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, expenses 10. 3765—To John P. Dalton, salary 10. 3766—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3874—To Frank Anaya, expenses 10. 3875—To J. Downey Harvey, expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3876—To Joseph Routier, traveling expenses 10. 3876—To B. Lauritzen, supplies 10. 3879—To R. Lauritzen, supplies 10. 3879—To Osborn & Alexander, supplies 10. 3881—To W. Markham, salary 10. 3882—To G. J. Sculley, salary 10. 3882—To G. J. Sculley, salary 10. 3883—To W. E. Elliot, salary 10. 3883—To W. E. Elliot, salary 10. 3883—To W. E. Elliot, salary 10. 3883—To W. E. Elliot, salary 10. 3883—To W. E. Elliot, salary 10. 3897—To Jon. T. Curley, expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 17 80 17 80 17 80 50 00 50 00 50 00 77 10		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies.  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.  No. 2504—To Truckee Lumber Co., supplies.  No. 2505—To Fireman's Fund Insurance Co., insurance.  No. 3884—To J. G. Woodbury, salary and expenses	\$5 00 30 75 	\$36
10. 2491—To John P. Dalton, supplies 10. 2492—To John P. Dalton, salary 10. 2493—To John P. Dalton, rent 10. 2494—To G. J. Sculley, salary 10. 2495—To W. Lamonte, salary 10. 2496—To John Howard, salary 10. 2496—To John Howard, salary 10. 2496—To W. E. Elliott, salary 10. 2499—To C. B. Elliott, salary 10. 2499—To C. Higgins, salary 10. 3375—To J. M. Sullivan, salary and expenses 10. 3375—To J. M. Sullivan, salary and expenses 10. 3376—To J. M. Sullivan, salary and expenses 10. 3379—To Edward Reilly, salary and expenses 10. 3379—To M. J. O'Reilly, salary 10. 3380—To M. J. O'Reilly, expenses 10. 3765—To John P. Dalton, expenses 10. 3765—To John P. Dalton, expenses 10. 3767—To John P. Dalton, expenses 10. 3874—To Frank Anaya, expenses 10. 3876—To J. Downey Harvey, expenses 10. 3876—To J. Downey Harvey, expenses 10. 3877—To O. P. Egbert, supplies 10. 3879—To O. Shorn & Alexander, supplies 10. 3879—To W. Lamont, salary 10. 3880—To W. Lamont, salary 10. 3881—To W. Markham, salary 10. 3882—To W. Lamont, salary 10. 3883—To W. E. Elliot, salary 10. 3883—To W. E. Elliot, salary 10. 3883—To W. E. Elliot, salary 10. 5048—To M. J. O'Reilly, salary 10. 5048—To M. J. O'Reilly, salary 10. 5048—To M. J. O'Reilly, salary 10. 5048—To M. J. O'Reilly, salary and expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 14 45 40 00 50 00 77 10		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year. By appropriation (Statutes of California, 1889, page 438)  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary No. 2501—To J. A. Richardson, salary and expenses No. 2502—To J. C. Frazier, salary and expenses No. 2503—To E. W. Hunt, salary and expenses No. 2504—To Truckee Lumber Co., supplies No. 2605—To Fireman's Fund Insurance Co., insurance No. 3884—To J. G. Woodbury, salary and expenses No. 3885—To J. G. Woodbury, salary and expenses No. 3886—To W. H. Schnittger, salary No. 3887—To J. C. Frazier, salary and expenses No. 3888—To E. W. Hunt, salary and expenses No. 3888—To E. W. Hunt, salary and expenses No. 3889—To J. A. Todman, labor	\$5 00 30 75 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 63 50 63 50 15 00	\$36
10. 2491—To John P. Dalton, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 14 45 40 00 50 00 77 10 33 10		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year. By appropriation (Statutes of California, 1889, page 438)  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary No. 2501—To J. A. Richardson, salary and expenses No. 2502—To J. C. Frazier, salary and expenses No. 2503—To E. W. Hunt, salary and expenses No. 2504—To Truckee Lumber Co., supplies No. 2605—To Fireman's Fund Insurance Co., insurance No. 3884—To J. G. Woodbury, salary and expenses No. 3885—To J. G. Woodbury, salary and expenses No. 3886—To W. H. Schnittger, salary No. 3887—To J. C. Frazier, salary and expenses No. 3888—To E. W. Hunt, salary and expenses No. 3888—To E. W. Hunt, salary and expenses No. 3889—To J. A. Todman, labor	\$5 00 30 75 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 63 50 63 50 15 00	\$36 
No. 2492—To John P. Dalton, supplies  10. 2492—To John P. Dalton, rent  10. 2494—To G. J. Sculley, salary  10. 2495—To W. Lamonte, salary  10. 2496—To John Howard, salary  10. 2496—To W. Lamonte, salary  10. 2496—To W. E. Elliott, salary  10. 2499—To C. B. Elliott, salary  10. 2499—To C. Higgins, salary  10. 3375—To J. M. Sullivan, salary and expenses  10. 3375—To J. M. Sullivan, salary and expenses  10. 3376—To J. M. Sullivan, salary and expenses  10. 3379—To M. J. O'Reilly, salary  10. 3379—To M. J. O'Reilly, salary  10. 3390—To M. J. O'Reilly, expenses  10. 3765—To John P. Dalton, expenses  10. 3765—To John P. Dalton, expenses  10. 3874—To Frank Anaya, expenses  10. 3874—To Frank Anaya, expenses  10. 3875—To J. Downey Harvey, expenses  10. 3876—To Joseph Routier, traveling expenses  10. 3878—To R. Lauritzen, supplies  10. 3879—To R. Lauritzen, supplies  10. 3882—To R. Lauritzen, supplies  10. 3882—To G. J. Sculley, salary  10. 3882—To G. J. Sculley, salary  10. 3883—To W. Lamont, salary  10. 3883—To W. Lamont, salary  10. 3883—To W. Lamont, salary  10. 3883—To W. Markham, salary  10. 3883—To W. E. Elliot, salary  10. 3883—To W. E. Elliot, salary  10. 4997—To Jno. T. Curley, expenses  10. 5138—To John P. Dalton, expenses  10. 5138—To John P. Dalton, expenses  10. 5138—To John P. Dalton, expenses	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75 100 00 124 77 271 14 00 108 65 37 60 17 80 17 80 17 80 17 80 17 80 10 00 17 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10 80 10		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year. By appropriation (Statutes of California, 1889, page 438)  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary No. 2501—To J. A. Richardson, salary and expenses No. 2502—To J. C. Frazier, salary and expenses No. 2503—To E. W. Hunt, salary and expenses No. 2504—To Truckee Lumber Co., supplies No. 2605—To Fireman's Fund Insurance Co., insurance No. 3884—To J. G. Woodbury, salary and expenses No. 3885—To J. G. Woodbury, salary and expenses No. 3886—To W. H. Schnittger, salary No. 3887—To J. C. Frazier, salary and expenses No. 3888—To E. W. Hunt, salary and expenses No. 3888—To E. W. Hunt, salary and expenses No. 3889—To J. A. Todman, labor	\$5 00 30 75 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 63 50 63 50 15 00	\$36
No. 2492—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2495—To W. Lamonte, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2498—To C. B. Elliott, salary No. 2499—To C. Higgins, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3376—To J. W. Hughes, professional services No. 3378—To J. W. Hughes, professional services No. 3379—To M. J. O'Reilly, salary No. 3376—To John P. Dalton, expenses No. 3765—To John P. Dalton, expenses No. 3766—To John P. Dalton, expenses No. 3876—To John P. Dalton, expenses No. 3876—To John P. Dalton, expenses No. 3876—To Joseph Routier, traveling expenses No. 3876—To Joseph Routier, traveling expenses No. 3879—To O. P. Egbert, supplies No. 3879—To Osborn & Alexander, supplies No. 3880—To W. Lamont, salary No. 3881—To W. Markham, salary No. 3883—To W. E. Elliot, salary No. 3883—To W. E. Elliot, salary No. 3883—To W. E. Elliot, salary No. 5188—To Jonn P. Dalton, expenses No. 5048—To M. J. O'Reilly, salary No. 5188—To Jonn P. Dalton, expenses No. 5189—To O. P. Egbert, supplies No. 5189—To O. P. Egbert, supplies No. 5189—To O. P. Egbert, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 203 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 17 80 17 80 17 80 17 19 25 24 25 24 25		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889	\$5 00 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 63 50 15 00 63 50 15 00 73 51	\$36
No. 2492—To John P. Dalton, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 14 45 40 00 50 00 77 10 38 10 119 25 24 25 14 5 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year: Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year. By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary  No. 2501—To J. A. Richardson, salary and expenses. No. 2502—To J. C. Frazier, salary and expenses. No. 2503—To E. W. Hunt, salary and expenses. No. 2504—To Truckee Lumber Co., supplies. No. 3884—To J. G. Woodbury, salary and expenses. No. 3885—To J. G. Woodbury, salary and expenses. No. 3886—To W. H. Schnittger, salary. No. 3887—To J. C. Frazier, salary and expenses. No. 3888—To E. W. Hunt, salary and expenses. No. 3889—To J. A. Todman, labor. No. 3890—To John Hurley, rent. No. 5131—To Carson and Taloe Lumber Co., supplies. No. 5132—To Whittier. Fuller & Co., supplies.	\$5 00 \$0 75 \$5 00 78 50 100 50 61 50 83 00 15 00 357 12 141 50 5 00 63 50 15 00 20 00 73 51 10 00	\$36
No. 2492—To John P. Dalton, supplies	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 208 20 75 00 30 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 17 80 17 80 17 80 10 10 83 10 11 25 12 42 25 12 42 55 10 00 11 445		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies.  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.  No. 2503—To E. W. Hunt, salary and expenses.  No. 2504—To Truckee Lumber Co., supplies.  No. 3884—To J. G. Woodbury, salary and expenses.  No. 3885—To J. G. Woodbury, salary and expenses.  No. 3886—To W. H. Schnittger, salary  No. 3886—To J. G. Frazier, salary and expenses.  No. 3888—To J. C. Frazier, salary and expenses.  No. 3889—To J. A. Todman, labor.  No. 3890—To J. An Todman, labor.  No. 3890—To John Hurley, rent.  No. 5131—To Carson and Talloe Lumber Co., supplies.  No. 5132—To Whittier, Fuller & Co., supplies.  No. 5133—To E. W. Hunt, salary and expenses.	\$5 00 30 75 	\$36 
No. 2492—To John P. Dalton, supplies No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2495—To John P. Dalton, rent No. 2495—To W. Lamonte, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2498—To C. B. Elliott, salary No. 2499—To C. Higgins, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3376—To J. W. Hughes, professional services No. 3379—To M. J. O'Reilly, salary No. 3380—To M. J. O'Reilly, expenses No. 3765—To John P. Dalton, expenses No. 3765—To John P. Dalton, expenses No. 3767—To John P. Dalton, expenses No. 3874—To Frank Anaya, expenses No. 3874—To Frank Anaya, expenses No. 3876—To Joseph Routier, traveling expenses No. 3876—To Joseph Routier, traveling expenses No. 3876—To O. P. Egbert, supplies No. 3879—To Osborn & Alexander, supplies No. 3830—To W. Lamont, salary No. 3831—To W. Markham, salary No. 3832—To G. J. Sculley, salary No. 3833—To W. E. Elliot, salary No. 3838—To W. E. Elliot, salary No. 3838—To M. J. O'Reilly, salary No. 5139—To John P. Dalton, expenses No. 5138—To John P. Dalton, expenses No. 5138—To O. P. Egbert, supplies No. 5138—To O. P. Egbert, supplies No. 5140—To Osborn & Alexander, supplies No. 5140—To Osborn & Alexander, supplies No. 5141—To J. Downey Harvey, expenses No. 5141—To J. Downey Harvey, expenses No. 5143—To H. H. Brigges, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 203 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 14 45 40 00 50 00 77 10 33 10 119 25 24 25 24 26 5 00 40 00		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies.  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.  No. 2503—To E. W. Hunt, salary and expenses.  No. 2504—To Truckee Lumber Co., supplies.  No. 3884—To J. G. Woodbury, salary and expenses.  No. 3885—To J. G. Woodbury, salary and expenses.  No. 3886—To W. H. Schnittger, salary  No. 3886—To J. G. Frazier, salary and expenses.  No. 3888—To J. C. Frazier, salary and expenses.  No. 3889—To J. A. Todman, labor.  No. 3890—To J. An Todman, labor.  No. 3890—To John Hurley, rent.  No. 5131—To Carson and Talloe Lumber Co., supplies.  No. 5132—To Whittier, Fuller & Co., supplies.  No. 5133—To E. W. Hunt, salary and expenses.	\$5 00 30 75 	\$36
No. 2492—To John P. Dalton, supplies No. 2492—To John P. Dalton, salary No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2496—To W. E. Elliott, salary No. 2499—To C. B. Elliott, salary No. 3499—To C. Higgins, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3378—To J. W. Hughes, professional services No. 3379—To M. J. O'Reilly, salary No. 3380—To M. J. O'Reilly, expenses No. 3765—To John P. Dalton, expenses No. 3765—To John P. Dalton, expenses No. 3767—To John P. Dalton, expenses No. 3876—To John P. Dalton, expenses No. 3876—To Joseph Routier, traveling expenses No. 3876—To Joseph Routier, traveling expenses No. 3876—To O. P. Egbert, supplies No. 3878—To R. Lauritzen, supplies No. 3878—To R. Lauritzen, supplies No. 3880—To W. Lamont, salary No. 3881—To W. 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Hunt, salary and expenses.  No. 5135—To E. W. Hunt, salary and expenses.  No. 5135—To I. G. Woodbury, salary and expenses.  No. 5135—To I. G. Woodbury, salary and expenses.  No. 5135—To I. G. Woodbury, salary and expenses.  No. 5135—To I. G. Woodbury, salary and expenses.  No. 5135—To I. G. Woodbury, salary and expenses.  No. 5135—To I. G. Woodbury, salary and expenses.	\$5 00 \$0 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 50 50 63 50 15 00 20 00 73 51 10 00 37 75 50 00 905 35	\$36
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No. 2491—To John P. Dalton, supplies No. 2492—To John P. Dalton, rent No. 2493—To John P. Dalton, rent No. 2494—To G. J. Sculley, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2496—To John Howard, salary No. 2496—To W. E. Elliott, salary No. 2499—To C. B. Elliott, salary No. 3375—To W. E. Elliott, salary No. 3375—To J. M. Sullivan, salary and expenses No. 3376—To J. M. Sullivan, salary and expenses No. 3376—To J. W. Hughes, professional services No. 3378—To J. W. Hughes, professional services No. 3379—To M. J. O'Reilly, salary No. 3380—To M. J. O'Reilly, expenses No. 3765—To John P. Dalton, salary No. 3766—To John P. Dalton, expenses No. 3767—To John P. Dalton, expenses No. 3874—To Frank Anaya, expenses No. 3875—To J. Downey Harvey, expenses No. 3876—To Joseph Routier, traveling expenses No. 3876—To Joseph Routier, traveling expenses No. 3879—To O. P. Egbert, supplies No. 3839—To Osborn & Alexander, supplies No. 3839—To Osborn & Alexander, supplies No. 3839—To W. Lamont, salary No. 3831—To W. Lamont, salary No. 3832—To G. J. Sculley, salary No. 3838—To M. J. O'Reilly, salary No. 3838—To M. J. O'Reilly, salary No. 3838—To John P. Dalton, expenses No. 5139—To O. P. Egbert, supplies No. 5140—To Osborn & Alexander, supplies No. 5140—To Osborn & Alexander, supplies No. 5140—To Osborn & Alexander, supplies No. 5140—To Osborn & Alexander, supplies No. 5141—To J. Downey Harvey, expenses No. 5144—To H. Britggs, salary No. 5144—To H. H. Britggs, salary No. 5144—To W. Lamont, salary No. 5144—To W. Markham, salary No. 5146—To W. Markham, salary No. 5146—To W. Markham, salary	10 00 50 00 28 00 36 65 60 00 50 00 26 00 172 44 193 20 203 20 75 00 5 75 100 00 124 77 271 15 14 00 108 65 37 60 17 80 14 45 40 00 50 00 77 10 33 10 119 25 24 25 14 45 5 00 10 00 10 00 10 00 114 45		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889	\$5 00 30 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 63 50 15 00 20 00 73 51 10 00 37 75 50 20 50 50 50 50 50 50 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 61 50 6	\$36 
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Warrants issued during the forty-first fiscal year for services performed during the fortieth fiscal year:  Warrant No. 1296—To W. H. Schnittger, labor.  No. 1297—To Jones & Givens, supplies  Unexpended balance fortieth fiscal year.  By appropriation (Statutes of California, 1889, page 438).  By Expenditures.  Warrant No. 2500—To W. H. Schnittger, salary.  No. 2501—To J. A. Richardson, salary and expenses.  No. 2502—To J. C. Frazier, salary and expenses.  No. 2503—To E. W. Hunt, salary and expenses.  No. 2504—To Truckee Lumber Co., supplies.  No. 3884—To J. G. Woodbury, salary and expenses.  No. 3885—To J. G. Woodbury, salary and expenses.  No. 3886—To J. G. Woodbury, salary and expenses.  No. 3888—To E. W. Hunt, salary and expenses.  No. 3889—To J. A. Todman, labor.  No. 3889—To J. A. Todman, labor.  No. 3890—To John Hurley, rent.  No. 5132—To Whittier, Fuller & Co., supplies.  No. 5132—To Whittier, Fuller & Co., supplies.  No. 5135—To J. G. Woodbury, salary and expenses.  No. 5136—To A. J. Bayley, labor.  No. 5137—To Truckee Lumber Co., supplies.  No. 6760—To W. M. Boyle, labor.  No. 6760—To W. M. Boyle, labor.	\$5 00 \$0 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 50 50 63 50 15 00 20 00 73 51 10 00 20 00 73 51 10 00 20 50 40 40 135 00 15 00 15 00	\$36 
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No. 2492—To John P. Dalton, supplies	10 00 50 00 28 00 36 65 60 00 26 00 26 00 172 44 193 20 208 20 75 00 50 75 100 00 124 77 271 15 14 00 108 65 87 60 17 80 14 45 50 00 77 10 33 10 119 25 24 25 14 45 5 50 00 5 60 00 77 10 6 60 00 77 10 6 60 00 77 10 6 60 00 77 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10 78 10		During the Forty-first Fiscal Year, ending June 30, 1890, chargeable a for the Support and Maintenance of State Hatcherical Unexpended balance on hand July 1, 1889.  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No. 5136—To A. J. Bayley, labor.  No. 5137—To Truckee Lumber Co., supplies.  No. 6760—To W. M. Boyle, labor.  No. 6760—To W. M. Boyle, labor.	\$5 00 \$0 75 \$5 00 78 50 100 50 61 50 33 00 15 00 357 12 141 50 5 00 50 50 50 50 50 50 50 50 50 50 50 50 20 00 20 00 20 00 20 50 20 00 20 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50	\$36 \$36 \$5,000

Amounts brought forward	\$1,619 78 15 00	\$5,000 2
No. 6762—To Andrews & Barr, supplies  No. 6763—To J. H. Sisson, supplies  No. 6764—To J. G. Woodbury, salary and expenses	31 10	, " ()
No. 6764—To J. G. Woodbury, salary and expenses	200 40	,
No. 6765—To W. H. Schnittger, salary	10 00	
No. 6765—To W. H. Schnittger, salary No. 6766—To Truckee Lumber Co., supplies.	45 25	
No. 6767—To J. A. Richardson, salary and expenses	297 50	
No. 7931—To Liebenbaum Bros., supplies  No. 7932—To J. M. Short, supplies  No. 8405—To Sisson, Crocker & Co., supplies	38 95 48 91	
No. 7932—To J. M. Short, supplies No. 8405—To Sisson, Crocker & Co., supplies	43 61	
No. 8406—To W. H. Schnittger, salary	5 00	
No. 8406—To W. H. Schnittger, salary  No. 8410—To John F. Moody, supplies  No. 9021—To Fireman's Fund Insurance Co., insurance	46 66	
No. 9021—To Fireman's Fund Insurance Co., insurance	31 80	
No. 9022—To J. G. Woodbury, salary and expenses.  No. 9023—To Truckee Lumber Co., supplies.	152 25 23 58	
No. 9023—To Truckee Lumber Co., supplies No. 9024—To John F. Moody, supplies	25 56 88 <b>42</b>	
No. 9025—To J. A. Richardson, salary and expenses	163 90	
No. 9026-To J. C. Frazier, salary and expenses	66 33	
No. 9027—To E. W. Hunt, salary	<b>75 00</b>	
No. 9558—To Justinian Caire, supplies No. 9559—To W. F. Bowers & Co., supplies	49 01	
No. 9509—To W. F. Bowers & Co., supplies	10 00 6 00	
No. 9560—To W. H. Himes, supplies	16 00	
No. 9561—To L. C. Nelson, supplies No. 9562—To J. A. Richardson, salary	75 00	,
No. 9563-To J. G. Woodbury, salary and expenses	144 60	
No. 9563—To J. G. Woodbury, salary and expenses No. 9564—To E. W. Hunt, salary and expenses No. 10507—To J. A. Richardson, salary No. 10508—To J. G. Woodbury, salary and expenses	78 00	
No. 10507—To J. A. Richardson, salary	75 00 133 35	
No. 10500—To J. G. Woodbury, salary and expenses	5 00	
No. 10510—To L. Stone, salary and expenses	204 50	,
No. 10509—To W. H. Schnittger, salary No. 10510—To L. Stone, salary and expenses No. 10659—To E. W. Hunt, salary	75 00	
No. 11575—To J. A. Richardson, salary No. 11576—To W. H. Schnittger, salary	10 00	
No. 11576—To W. H. Schnittger, salary	5 00	
No. 11577—To J. G. Woodbury, salary and expenses	135 80 75 00	
No. 11578—To E. W. Hunt, salary No. 11579—To Sisson, Crocker & Co., supplies	95 91	
No. 11580—To The Bancroft Co., supplies	5 75	
No. 11581—To Southern Pacific Co., freight	22 85	
No. 11589—To Sisson, Crocker & Co., supplies  No. 11580—To The Bancroft Co., supplies  No. 11581—To Southern Pacific Co., freight  No. 11582—To Neville & Co., supplies  No. 11583—To F. E. Drew, labor  No. 12556—To E. W. Hunt, salary and expenses  No. 12569—To J. G. Woodbury, salary and expenses	41 06	
No. 1983—To F. E. Drew, labor	25 00 92 90	*
No. 12589—To J. G. Woodbury, salary and expenses	180 85	
No. 12590-To J. A. Richardson, salary and expenses	77 90	
No. 12591—To W. T. Bowers, expenses	5 50	
No. 12592—To Edson Brothers, supplies	. 61 50	
No. 12590—To J. A. Richardson, salary and expenses No. 12591—To W. T. Bowers, expenses No. 12592—To Edson Brothers, supplies No. 12593—To W. H. Himes, labor No. 12594—To Leibenbaum Brothers, supplies	5 00 92 61	
	10 00	
Balance on hand July 1, 1890	117 76	
Totals	<b>\$5,000 29</b>	\$5,000 2
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avaannaa		
EXPENDITURES		
During the Forty-first Fiscal Year, ending June 30, 1890, chargeable mission Fund.	against the	Fish Con
mission Fund.		
By balance on hand July 1, 1889		\$19
By balance on hand July 1, 1889 Receipts into the fund, forty-first fiscal year		5,309
• •		٠.
By Expenditures.		,
Warrant No. 1979_To W E Elliott salary	\$60 00	
Warrant No. 1272—To W. E. Elliott, salary	50 00	
No. 1274—To G. J. Sculley, salary	50 00	
No. 1274—To G. J. Sculley, salary No. 1275—To Thomas H. Powers, salary	40 00	
No. 1276—To John P. Dalton, salary	100 00	
No. 1277—To John P. Dalton, expenses	71 91	
No. 1278—To Charles Elliott, salary	50 00	
No. 1279—To John F. Moody, salary	20 00	, ,
No. 1283—To Frank Anaya, salary	23 10	
Amounts carried forward	<b>\$465 01</b>	\$5,328
	• •-	

REPORT OF STATE BOARD OF FISH COMMISSIONERS.

Amounts brought forward  No. 1288—To E. W. Hunt, supplies and salary  No. 1289—To J. A. Richardson, salary  No. 1290—To E. Reilly, salary  No. 1291—To M. J. O'Reilly, salary  No. 1292—To R. Lauritzen, supplies  No. 1294—To Osborn & Alexander, supplies  No. 1294—To Goldberg, Bowen & Co., supplies  No. 1295—To J. C. Frazier, salary and supplies  No. 2716—To J. G. Woodbury, salary and supplies  No. 2965—To J. Downey Harvey, traveling expenses  No. 4452—To C. Higgins, labor	<b>\$465 01</b>	\$5,328 22
No. 1288—To E. W. Hunt, supplies and salary	73 25	φυ, υ20 22
No. 1289—To J. A. Richardson, salary	45 70	
No. 1290—To E. Reilly, salary	153 00	
No. 1291—To M. J. O'Reilly, salary	30 00	
No. 1292—To R. Lauritzen, supplies	13 65	
No. 1293—To Osborn & Alexander, supplies	14 45	
No. 1294—To Goldberg, Bowen & Co., supplies	14 00	
No. 1295—To J. C. Frazier, salary and supplies	104 50	
No. 2716—To J. G. Woodbury, salary and supplies	609 72 192 00	
No. 2965—To J. Downey Harvey, traveling expenses No. 4452—To C. Higgins, labor No. 5526—To J. Downey Harvey, traveling expenses No. 6768—To H. G. Miller, balance due on contract No. 6769—To "Sacramento Bee," advertising No. 7208—To John P. Dalton, supplies No. 7209—To John F. Moody, expenses No. 7210—To R. Radcliff, expenses No. 8360—To H. Dutard, rent of tug No. 8370—To F. P. Callundan, salary and expenses No. 9154—To E. Reilly, salary No. 9158—To M. J. O'Reilly, salary and expenses No. 9520—To Joseph Routier, traveling expenses No. 9521—To J. Downey Harvey, traveling expenses No. 9523—To Thomas Tumstead, salary No. 9524—To W. J. McDowell, expenses	95 00	
No. 58%—To J. Downey Harvey traveling expenses	413 00	
No. 6768—To H. G. Miller, balance due on contract	16 40	
No. 6769—To "Sacramento Bee." advertising	24 00	
No. 7208—To John P. Dalton, supplies	5 25	
No. 7209—To John F. Moody, expenses	42 45	
No. 7210—To R. Radcliff, expenses	100 00	
No. 8369—To H. Dutard, rent of tug	49 50	
No. 8370—To F. P. Callundan, salary and expenses	207 25	
No. 9154—To E. Reilly, salary	100 00	
No. 9158—To M. J. O'Reilly, salary and expenses	31 40	
No. 9520—To Joseph Routier, traveling expenses	5 00	
No. 9521—10 J. Downey Harvey, traveling expenses	5 00	
No. 9022—10 F. P. Callundan, salary and expenses	199 50	
No. 9524—To Thomas Tumstead, satary No. 9524—To W. J. McDowell, expenses. No. 9525—To J. F. Curley, expenses. No. 9526—To J. F. Curley, expenses. No. 10501—To F. P. Callundan, salary and expenses. No. 10502—To J. D. Ennis, salary No. 10503—To M. J. O'Reilly, salary and expenses. No. 11617—To Joseph Routier, traveling expenses. No. 11618—To Joseph Routier, traveling expenses.	100 00 16 80	
No. 0525—To I F Chirley expenses	7 25	
No. 0506—To I F Curley expenses	28 50	
No. 10501—To F. P. Callundan, salary and expenses	109 00	
No. 10502—To J. D. Ennis, salary	100 00	
No. 10503-To M. J. O'Reilly, salary and expenses	33 85	
No. 11617-To Joseph Routier, traveling expenses	34 00	
No. 11618—To Joseph Routier, traveling expenses No. 11619—To J. D. Harvey, traveling expenses No. 11620—To J. D. Harvey, traveling expenses No. 11621—To F. P. Callundan, salary and expenses	30 00	
No. 11619—To J. D. Harvey, traveling expenses	5 00	
No. 11620—To J. D. Harvey, traveling expenses	5 00	
No. 11621—To F. P. Callundan, salary and expenses	130 50	
No. 11622—To Whittier, Fuller & Co., supplies  No. 11623—To John D. Ennis, salary  No. 12553—To Joseph Routier, traveling expenses	8 00	
No. 11623—To John D. Ennis, salary	100 00	
No. 12553—To Joseph Routier, traveling expenses.	30 00	
No. 12554—To F. P. Callundan, salary and expenses No. 12555—To M. J. O'Reilly, salary and expenses No. 12599—To J. D. Harvey, traveling expenses No. 12600—To John M. Bailhache, expenses	201 70	
No. 12000—To M. J. O'Rellly, salary and expenses	31 90 5 00	
No. 19600. To John M. Reilhache expenses	6 00	
No. 19601 To John D. France colory	100 00	
No. 12001—10 John D. Emilis, Salary	22 50	
No. 12601—To John D. Ennis, salary  No. 13184—To T. E. Sullivan, labor  No. 13485—To W. H. Shebley, salary  No. 13400—To M. J. O'Reilly, salary  No. 13401—To E. D. Stewart, labor  No. 13402—To S. F. Earl, labor  No. 13403—To John D. Ennis, salary  No. 13404—To John F. Curley, boat hire  No. 13405—To J. Downey Harvey traveling expenses	52 25	•
No. 13400—To M. J. O'Reilly, salary	30 00	
No. 13401-To E. D. Stewart, labor	68 55	
No. 13402—To S. F. Earl, labor	97 50	
No. 13403—To John D. Ennis, salary	130 50	
No. 13404—To John F. Curley, boat hire	30 00	
No. 13405—To J. Downey Harvey, traveling expenses		
No. 13406—To F. P. Callundan, salary and expenses	121 40	•
No. 13407—To Joseph Routier, traveling expenses	30 00	
No. 13405—To J. Downey Harvey, traveling expenses No. 13406—To J. Downey Harvey, traveling expenses No. 13407—To Joseph Routier, traveling expenses No. 13869—To T. W. O'Neil, labor No. 13885—To M. J. O'Reilly, salary No. 13886—To E. W. Hunt, salary and expenses	177 80	
No. 1888 To F. W. Hunt, salary and avenues	30 00 107 35	
No. 14045 To Joseph Routier traveling expenses	30 00	
No. 14009—To John D. Ennis salary and expenses	121 50	
No. 14093—To F. P. Callundan, salary and expenses	137 45	
No. 14045—To Joseph Routier, traveling expenses No. 14092—To John D. Ennis, salary and expenses No. 14093—To F. P. Callundan, salary and expenses Balance on hand July 1, 1890	44 89	
<del>_</del>		
Totals	<b>\$5,328 22</b>	\$5,328 22

#### EXPENDITURES

During the Forty-first Fiscal Year, ending June 30, 1890, Chargeable 2 tion for the Importation and Propagation of Game B	Against the irds.	Appropria
To appropriation (Statutes of California, 1889, page 304)	·	\$2,000 <sub>00</sub>
By Expenditures.		
Warrant No. 8404—To "American Field" Publishing Company, advertising	\$3 84 500 00 1,496 16	3
Total	\$2,000 00	\$2,000 00

#### REPORT OF J. G. WOODBURY,

Superintendent of Hatcheries and the Restoration of Fishes, embracing the Operations carried out during the period between August 1, 1888, and October 1, 1890.

San Francisco, October 1, 1890.

To the honorable the Board of Fish Commissioners of the State of California:

GENTLEMEN: After being appointed Superintendent by your honorable Board on the first day of August, 1888, I visited Lake Tahoe, where Mr. Frazier was in charge of hatching the six hundred thousand eyed trout eggs, which had been contracted for by your honorable Board.

These eggs were being hatched in a rented building, small and windowless, and consequently giving insufficient light to distinctly observe the condition of the fish in the troughs, which is a very essential matter, for cleanliness is a cardinal virtue in the successful hatching and rearing of trout, and an abundance of light is necessary to perceive what one is doing.

The supply of water to the hatchery on a hot day was very precarious, diminishing in quantity in the middle of the day, and with cattle tramping up the ground around the springs, and the rotten condition of the wooden pipes which conveyed the water a long way to the hatchery, made it a very uncertain business in hatching trout, and kept the attendant in constant apprehension of some mishap.

It seemed a reproach to the California Fish Commission to be compelled to do its work of stocking Lakes Tahoe, Donner, Independence, Webber, and the mountain streams in the vicinity with fish under such adverse conditions as these. And if it is thought of sufficient importance that these waters be stocked with trout, it should be done from year to year, continuously, for intermittent work of this kind—stocking these waters for a year or two and then skipping a year—is work almost thrown away.

It occurred to me that the State should select some favorable point for shipping, and build its own hatchery, commodious and well appointed, with a certainty of plenty of cold spring water, and make Lake Tahoe a trout-hatching station as a distributing point for all these mountain waters.

Mr. Frazier reported that he shipped the trout, resulting from these fix hundred thousand eggs, in 1888, to the localities and in the numbers given in the tables which accompany my report to your honorable Board.

THE SISSON SALMON HATCHERY, 1888.

The Board of Fish Commissioners had received word from Mr. Livington Stone, who was in charge of the United States salmon hatchery on the McCloud River, that he would deliver at the McCloud River Station, for charge to the California Fish Commission, four million eyed thron eggs for stocking streams in this State.

To take advantage of this generous offer on the part of the Unit States Fish Commission, I immediately, on my return from Lake Tab started to look up a place on the headwaters of the Sacramento Riv for the erection of an extensive hatchery to accommodate this large nu ber of eggs when hatched out. The necessary conditions for hatchi out so many eggs, and the large trough space for nurseries to keep good condition the young fish until they are old enough to ship, a good sized stream of pure, cold spring water with no possibility floods washing out the ditches or flumes that take the water to t hatchery, and with a right at all times to control a sufficient quantity of water for all purposes. It was also essential that the hatchery should be at a convenient distance from the railroad station and a telegran office for convenience of shipping the fish to distant points; also, a point on the river, whence it was, owing to its accessibility, the cheapest reach by wagon road the greatest number of the branches of the head waters of the Sacramento River. For the shipping of even one million of young fish to distant points and properly distributing them over the nursery grounds is a costly and tedious operation.

After examining the Sacramento River for the best place in my opin ion, I selected, with the consent of Mr. J. H. Sisson, a site in the fiel back of his barn about three quarters of a mile from the railroad station in the town of Sisson. The spot selected is well drained, sunny, and sheltered from the prevailing winds, and with an open view of old Mount

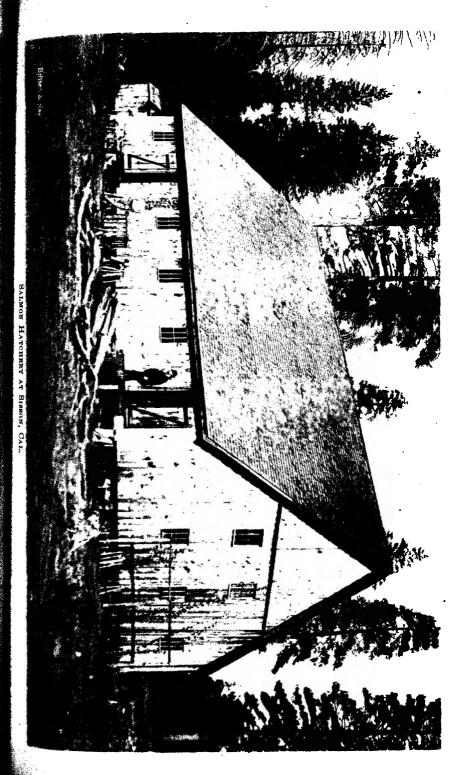
Shasta.

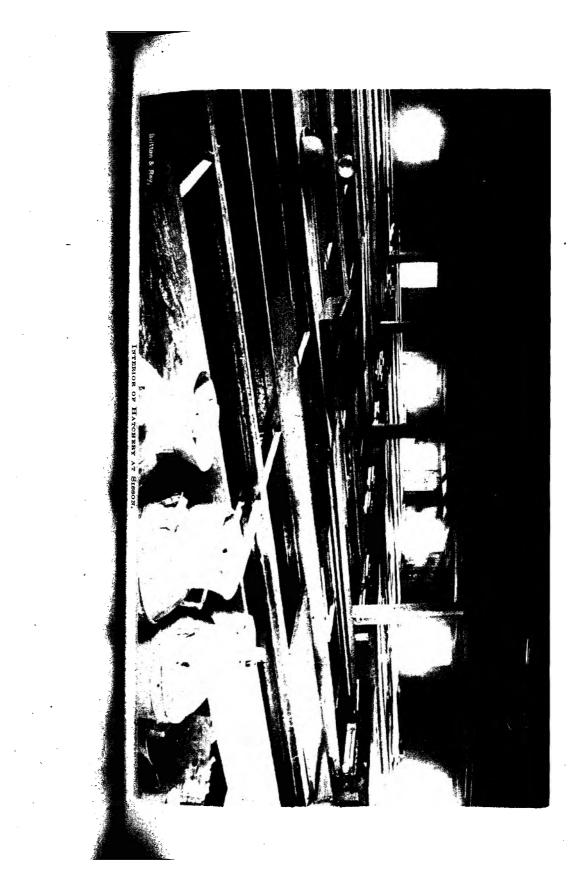
The water for the hatchery comes from a large spring, about one and a half miles distant, which forms the extreme head of one of the branche of the Sacramento River. Its volume is sufficient to run a sawmill, and its temperature is 46 degrees Fahrenheit at all seasons. The main dite from this spring runs near by the hatchery. It seemed to be an ideal place for a hatchery, and also most conveniently situated for distributing the fish to the proper nursing grounds. In the two years of experience since the hatcher was built, in hatching the millions of trout and salmot eggs, the expectations have been more than fulfilled. The waters seem to have a marvelous virtue in maintaining the health of the young fish as well as having a sparkling taste to the palate. The hatchery was built in expeditious haste to prepare it in one month for the reception of the expected salmon eggs from the September run of fish at the McClouk River Hatchery.

The hatchery is a plain building forty feet by sixty feet, strongly build with a half pitch roof which has resisted the tremendous snows of the past winter. It has a capacity for forty-four hatching troughs sixted feet long and sixteen inches wide. The troughs are made of one and one half-inch dressed pine, and are painted with three coats of asphavarnish to prevent the wood from growing a fungus, which would destroy the young fish. A head trough sixteen inches square, prepare in the same way, runs the entire length of the building, sixty feet, which furnishes water through gates to the hatching troughs. A large filting tank outside, and a flume about one hundred yards long, connected the hatchery with the main ditch. The hatchery has a system troughs beneath the floor to carry off the water from all the hatching

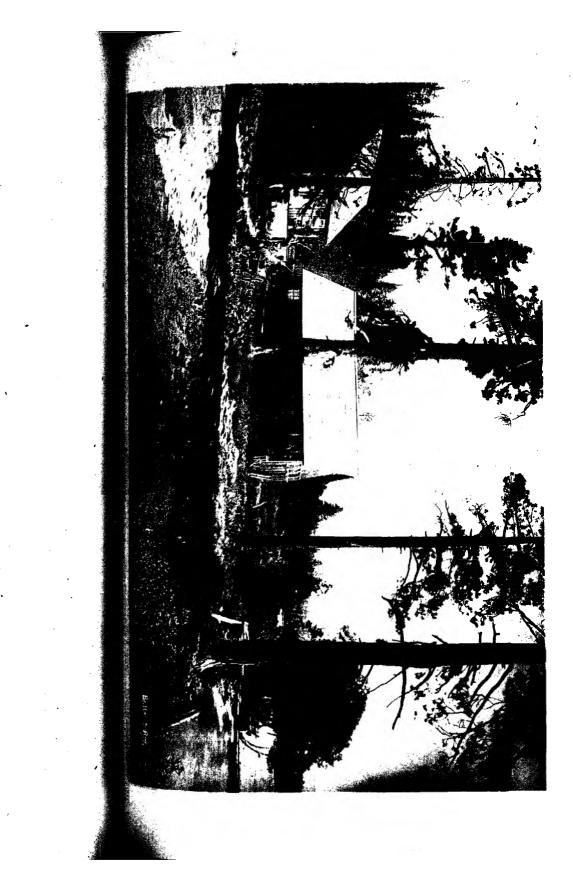
troughs to a waste ditch outside.

A room fourteen by sixteen feet, for the men to live in, was finish in the upper part of the hatchery.

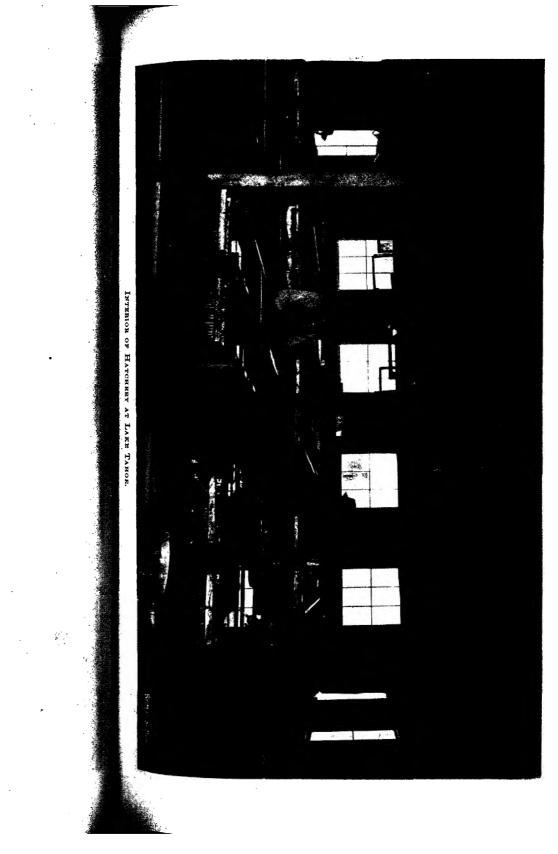




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Each trough has screens and covers to protect the eggs from the light. One hundred and fifty wire hatching baskets were made and painted with asphalt varnish. It seemed to be an endless task to get this large hatchery finished. We worked every day in the week, and most of the nights until ten and eleven o'clock, painting the troughs, making the baskets, covers, etc., and fixing up the living-room. This work continued long after the first lot of eggs were received.

This hatchery is well equipped and is also one of the largest in the country. It has a third larger capacity than the United States Salmon Hatchery on the McCloud River, where fourteen million salmon eggs

have been eved at one time.

Before shipping the eggs, Mr. George B. Williams, Superintendent of the station at Baird, where the United States Salmon Hatchery is located, sent word notifying us of the date of shipment. The salmon eggs are hauled to Smithson, on the Sacramento River, where one of our men meets them with ice to be put in the packages to keep them cool. The State Fish Commission pays all expenses incurred on the shipment of eggs from the McCloud River to Sisson. The United States Fish Commission generously donates the eggs, eyed and packed, ready for shipment, from the Government Hatchery on the McCloud River.

We received at the Sisson Hatchery, from the September run, 1888, about eight hundred thousand salmon eggs, instead of the three or four million which were expected to be taken during that month. This caused a great surprise and disappointment, for ten years ago during the same month twelve million eggs were easily taken. This shows what havor the fishermen with their nets are making in the lower

Sacramento River.

This year, 1888, the United States Fish Commission renewed their operations on the McCloud River, that station having been abandoned during the previous five years. The eight hundred thousand eggs received from them were hatched out at Sisson, and kept till old enough to be planted, and during the month of December were distributed in branches of the Sacramento River, the West Fork, Salloway Creek, Big Spring Creek, Cold Creek, and in the main Sacramento below the eighteenth crossing.

The Government Station on the McCloud River did so poorly in the August and September run that they continued their efforts for the taking of more spawn during October and November. This had been unusual informer years, because they got all they required in the first run. Usually the McCloud River rises in volume during the fall rains, which makes it very difficult for the men to keep their traps in the river (as, for instance, during last year, 1889, when everything was swept away).

We received at the Sisson Hatchery from the October and November run, 1888, about two million two hundred thousand salmon eggs. The eggs arrived during the last of December and part of January, 1889. These were hatched out in fine condition, and kept till old enough to ship, and were distributed, in March and April, in the same streams as those of the September run; and, also, down the Sacramento River as far as Big Castle Creek. In shipping these fish down the river the Southern Pacific Railroad Company very generously loaned us the use of a hand car, and gave the right of way on their road. Without this accommodation it would have been almost impossible to have distributed the fish properly. With the good water at the Sisson Hatchery,

and the care they received from the attendants, Mr. James A. Richardson and Mr. E. W. Hunt, I venture to say that no fish were ever hatched out with a less percentage of loss.

In the fall of 1888 a contract was made with Mr. Livingston Stone, at the United States Hatchery on the McCloud River, to hatch out from the eyed eggs which the United States Fish Commission donated to the California Fish Commission, five hundred thousand young salmon at 75 cents per thousand, and distribute them in the McCloud River.

The United States Fish Commission also very generously hatched out and planted in the McCloud River the same season one million young salmon at its own expense; and, also, in 1889 the United States Commission planted eighty-four thousand young salmon in the McCloud River. More would have been planted there that year by the United States Commission, if the floods had not washed out the traps and thus prevented the taking of any more breeding salmon.

Mr. J. H. Sisson generously gave two lots in the addition to the town of Sisson, each thirty feet by one hundred and forty feet, for the use of the hatchery, for \$1 a year with the free use of the water; and, also, he signed a bond to give the Fish Commission permission to remove the buildings, or else buy the land at the market price, with a perpetual free use of all the water from Big Springs Creek which the hatchery should need. These lots should belong to the Fish Commission, with one or two more of the adjoining lots on the south included.

Mr. Dunn, the Controller, claims that under the present law the Fish Commission has no right to purchase land for its hatcheries. I would suggest that your honorable Board petition the next Legislature for a law to be passed granting the Fish Commission the right to purchase land for its hatcheries when a desirable locality has been fixed upon.

If the hatcheries do any good in maintaining the normal supply of food fish by restocking the streams, and if it is advisable to operate the hatcheries for a few years, it is equally important to maintain them for all time. The State consequently should own and operate its own hatcheries as a permanent institution.

As soon as the young salmon were all distributed (April, 1889), the hatchery was closed at Sisson for the season of 1888-9.

#### LAKE TAHOE.

Operations were now immediately begun at Lake Tahoe. The fisher men said that the month of May was too late a date on which to take spawn at Taylor Creek, which was considered the best place for getting the most spawn. But we managed by careful seining to get about one hundred and fifty thousand trout eggs here, which were put into the old private hatchery at Tahoe City. Taylor Creek is at the upper end of the lake, about twenty miles from the hatchery. Work was then begun on traps to be put in the creeks near their mouths. We had to wait for the lumber to be sawed out at Truckee and hauled over what was, at that time, a bad road. This delayed us somewhat, but as soon as possible we had traps in Meek's, Phipps', Blackwood, and Ward Creeks. Trout run up these creeks later than they do in Taylor Creek, for the reason that these streams are fed by melting snow water which is cold and often roily, while Taylor Creek has its source in Fallen Leaf Lake, which modifies the temperature of the small streams running into its

In Meek's Creek the trout had been running some time before we put in our traps, and Chinamen had been catching them by torchlight, so the fishermen said. The run dwindled down very fast and we caught but few trout, but the traps were full of suckers.

In Phipps' Creek, which is later than Meek's, the trout had not begun to run when the traps were set; the water was very low. We caught here but very few fish during the season. Trout used to run up this stream in large numbers, but a trap had been kept here for years past to catch the fish, principally for the market, and I could not learn if any young trout had been planted in the stream to restock it in place of those which had been prevented from going up to spawn.

The next creek, Blackwood, is a larger and later stream for trout; in this creek we caught the greater bulk of our eggs. We had to continue trapping in this creek a long time—into August, in fact—when the water

became very low.

In Ward Creek but very few trout were caught.

We also seined at the Incline in Nevada, by permission of Fish Commissioner Mills. Here formerly trout used to be caught in great numbers by the same fishermen who worked this season for us. This year, however, but few fish could be seined, while cart loads of sawdust were drawn in by the seine. The two streams which empty into the

lake at this place were very low.

We took this season, 1889, about one million two hundred thousand eggs. It was expensive to keep the traps in for so long a time with men to attend them. Spawn taking had been continued through three months, while in an ordinary season, and to get two million five hundred thousand eggs, it was expected that the work of spawning would be done in six weeks. The cause given why so few fish could be caught was that it had been an open winter around the lake, scarcely any snow had fallen, and the water consequently in all the streams was very low. It is the melting of the deep snows in the mountains that cause the streams around Lake Tahoe to rise in April, May, and June. All the traps and seining grounds were at distant points from the hatchery. The eggs had to be brought around the lake on the steamer or in rowboats.

In the first part of this report mention is made of the old private hatchery, where the Commission was having trout hatched, of its inadequate qualities, of the insufficiency of water for hatching purposes, and the insecurity of supplying pipes. It seemed necessary that the Fish Commission of this State should have a hatchery of its own, sufficiently large to take care of fifteen hundred thousand trout, with a good supply

of cold spring water.

A State hatchery at Lake Tahoe would be the most central, as a point of distribution, for the great Tahoe, Donner, Independence, and Webber Lakes, as well as the Truckee River and its branches, and also the headwaters of the different forks of the American River, and rivers farther south, rising at the summit of the Sierra Nevada Mountains—these latter being stocked with Eastern trout alone, while all the former could be stocked with Lake Tahoe trout, Eastern trout, and the land-locked salmon.

Lake Tahoe is of considerable importance as a resort for health and pleasure by tourists from the East, as well as large numbers of our own people. Boating and fishing are among its pastimes. Travel here must increase as our State becomes more thickly populated. All these waters

were well stocked with trout in former years, when the Truckee Rivel was open to the passage of trout from Tahoe to Pyramid and Eche Lakes. The magnificent spawning grounds of the whole length of the Truckee River were then used by the trout to deposit their eggs. In almost countless numbers the trout made their way from Pyramid and Echo Lakes to Lake Tahoe. But since the dams have been built on this river no trout can get up to Lake Tahoe, and of late years trout have been diminishing above the lower dam very fast.

REPORT OF STATE BOARD OF FISH COMMISSIONERS.

Taking all these things into consideration, I thought it best to build

at Lake Tahoe a new State hatchery.

#### THE NEW STATE HATCHERY AT LAKE TAHOE.

Soon after arriving at the lake, and while the other work of seining and trapping was in operation, I began to look up a place to build, with the necessary conveniences for hatching and shipping. A spot near Tahoe City was selected, where there were some fine springs near the shore of the lake and quite close to the steamer landing.

No one could tell me where the owner could be found, or even what his name was. But in the hurry for a safe place to hatch the spawn which was being taken (the first few lots were placed to the old private hatchery, which was hired for the purpose), I had determined to build a temporary hatchery on the place selected, and trust to luck in finding its owner and buying it of him. So I ordered lumber from the mill at Glenbrook for the building, and had the hatching troughs made at the factory in Truckee. Wire for the hatching baskets was ordered from San Francisco. A man was put to work getting out sills for the foundation of the permanent hatchery. Other men were set to digging ditches to bring in water from the springs to a new reservoir to be made near the lake shore. As soon as the lumber and troughs arrived, a temporary roof was put up. Some of the troughs were painted and prepared for the eggs. After the troughs were in place, and the flume to the head trough finished, and the water was running in the hatching troughs, we brought the eggs from the old hatchery to our temporary new one We felt much relieved now, for we could take care of the eggs as fast as they came in, and had the eggs which were in the old hatchery in a safe place—the old rotten pipe had already burst several times, and we had been harassed with fear of losing the eggs.

At this point of our work I started for San Francisco to find the owner of the place on which I wished to build the new hatchery. After considerable trouble and delay, I found the owner of the springs, and after making a bargain at a fair price for the land, and a guarantee to give me a month to search the title, I returned to Tahoe. We at once began work on the new hatchery, laying a strong foundation with heavy sills

to bear up the weight of water and heavy winter snows.

The building is twenty-four feet by forty-two feet, strongly built, with a half pitch roof. It has seventeen windows, which give abundance of light. The plan of the hatching troughs is like those at the Sisson Hatchery, with twenty-four troughs twelve feet long, and sixteen inches wide—with head trough and a large settling tank outside connecting with a flume, which brings the water down for about two hundred yards from the springs.

As soon as the building was ready and part of the troughs had been

placed in position, we transferred the baskets of eggs and young fish from the temporary hatchery to the new building; the remaining troughs were then put in place.

The troughs are well made, of sugar pine, and painted with two coats of asphalt varnish. A good supply of new hatching baskets, painted

with varnish, and covers made for all the troughs.

The hatchery is well appointed, strongly built, and roomy.

It was necessary to do all this work as quickly as possible, and, in doing it, there were many vexatious delays. No supplies for the work could be obtained at Tahoe, except lumber in the tree. The shakes for the roof had to be made, the sills had to be hewn from the tree, and, as no teams get in there until the loggers arrive, we were much delayed in hauling the sills and shakes. The lumber had to be sawed and brought over on scows from Glenbrook, then rafted and got inshore as close as possible, then thrown into the water, pushed ashore, dragged out and packed up to the building.

Lake Tahoe is a very difficult place to collect spawn. The traps are all at distant points. In going to one on the steamer it takes all the next day to get back, as the steamer has to go round the lake to get home. To go to the traps off the regular route of the steamer rowboats must be used, which takes half a day to go the round trip. On many days the lake is so rough that it is not possible to go in a boat. We had a very busy summer's work; all hands were employed every Sunday, as

well as through the week days.

Of the thirteen acres which were bought for the hatchery, the greater part consisted of wet land through which the springs flowed. This naturally produced the best feeding ground for cows. As soon as the grass began to spring up, about two hundred head of cattle were driven into the neighborhood of Tahoe City, and they made our springs their headquarters. They would wade in all through that soft ground among the alders, tramping it up, and the water in the hatchery would be black with mud, covering the eggs and thickly settling on the bottom of the troughs.

We had to endure this annoyance for weeks, leaving our work in the day time to drive them off, and watching the place till ten o'clock at night, till the wire for fencing ordered from Sacramento arrived, the posts split, the holes dug, and fence put up to protect ourselves from their raids.

Later in the season, when most of the fish were shipped and more leisure obtained, a line ditch was dug from the reservoir to the main spring, and a strong flume of two-inch planks was laid and covered up. This was to keep the water from getting heated upon a hot day. Also, a new house for quarters for the men was built, sixteen feet by twentyfour feet, with three rooms, boarded and battened outside and close boarded inside, making a strong, well built, and warm house. A new stove and housekeeping articles were bought. Our men did their own cooking after the first of August, the Commission furnishing the supplies, thus saving large board bills at the hotel.

After I had made a bargain for the land, your honorable Board sent me word that Mr. Dunn, the Controller, said that he had no authority to issue a warrant to pay for land for the Fish Commission. As the buildings were already begun, and as there was no other course to pursue but go ahead, I wrote your honorable Board that I would buy the land

myself and rent it to the Commission at a nominal sum.

After the spawn was all taken, about the first of August, I sent Mr. Richardson to the city to begin shipping Black bass from the Spring Valley Water Company's lakes.

Mr. Hunt stopped at the hatchery till most of the young trout were shipped in the latter part of September. He then went to the Sisson Hatchery to receive the first lot of salmon eggs from the United States Hatchery on the McCloud River. I had already been up there (August), and painted the troughs with asphalt varnish, and turned on the water to soak them in readiness for the September run of salmon eggs.

I stopped at the Tahoe Hatchery, working on the house and flume

most of the time until both were finished.

The fish being all shipped, the house and flume finished, several cords of wood got into the house for the next spring work, the hatchery was closed up on the last of October, 1889.

The distribution of this season's trout (1889) at Lake Tahoe will be

seen on reference to the tables.

#### BLACK BASS.

Seth Green brought the first Black bass to California. These were brought out at the expense of a sportsmen's club, and placed in Temescal Lake, near Oakland. A few waters have been stocked from the young of these bass.

The second lot of Black bass was brought out by B. B. Redding, for the California Fish Commission, and planted in the Crystal Springs reservoir, near San Mateo, with the permission of the Spring Valley Water Company, for breeding purposes, with the privilege of shipping

the progeny of these fish to stock the waters of this State.

The Black bass is a splendid game fish, fighting bravely and fiercely for its liberty, many anglers claiming that there is more sport fishing for them than for trout. They are also a delicious fish to eat. They will do well in almost any of our fresh waters, either rivers or lakes; they multiply very rapidly, and require no aid from artificial propagation. When waters are once stocked with them, they are to stay, if fair play is shown them. They should be protected for several years till the original stock has had a chance to breed two or three times, and afterwards no fishing should be allowed for several months during the spawning season. Like any other live stock, if breeders enough are not reserved, the stock will become diminished.

The Black bass, like Striped bass are ravenous feeders; they will devout the Sticklebacks, which almost all fish avoid on account of their spines.

Not many of our public waters have been as yet stocked with these fish. They should be, for when once they become stocked with Black bass it is done for all time.

Clear Lake, in Lake County, will make, when it has been well stocked with Black bass, a splendid and extensive resort for anglers. There is an inferior fish there which breeds in myriads, which will give grand feasting for Black bass.

It was thought to be high time that some systematic work should begin to stock all the waters of our State that are proper to plant with base. Clear Lake, the Blue Lakes, Tulare Lake, Goose Lake, and many smaller lakes in our State, and perhaps the great Klamath Lakes. Probably it

would not be well to plant Black bass in Tahoe, Donner, Independence, or Webber Lakes.

The rivers Kern, King, and so forth, are admirably adapted for the home of this fish. I am not over confident that it would be safe for the young salmon to have the Black bass planted in either the Sacramento

or San Joaquin Rivers.

The young salmon make the Sacramento River their highway from the nursery grounds in the McCloud and upper Sacramento Rivers to the ocean, and they would have to run the gauntlet of the Black bass if the latter were planted there. But the perch and the Sacramento River pike, which have always been there, would also be salmon eaters, if they could catch them. The question remains: Would the Black bass be any more destructive than their first cousin, the perch? At any rate, in time these fish will find their way into these rivers, clandestinely by private parties, if not done so openly by the Fish Commission. Russian River is, I understand, at present well stocked with Black bass.

Many applications have been made for Black bass to stock waters in different parts of the State. They have to be caught for shipment with hook and line. If they swallow the hook it is liable to injure them, and cause them to die while kept in confinement waiting for shipment, or on

the journey to be planted.

When fish are shipped to private waters, the expenses of the journey, transportation, railroad fares, hotel bills, etc., are expected to be paid by those who make application for them. Fifty fish, such as would breed for the first time during the following spring, are sufficient to stock any reservoir or small lake. The number did not exceed twenty which were originally placed in Crystal Springs reservoir.

Mr. James A. Richardson, after leaving the Tahoe Hatchery, in August, 1889, began shipping the Black bass, making one trip to the waters near Oroville, for Senator Jones, one to Sweetwater reservoir, San Diego, and two shipments to Clear Lake. More shipments would have been made that year, but Mr. Richardson became seriously ill, and had to postpone

the work.

#### SISSON HATCHERY, 1889-90.

The salmon hatching season opens about the latter part of September. Mr. E. W. Hunt, after leaving the Tahoe Hatchery, in September, 1889, went up to the Sisson Hatchery to receive the first consignment of salmon eggs from the United States Hatchery on the McCloud River. There were shipped of the August and September run nine hundred and seventy-four thousand salmon eggs, and of the later run in October and November, three hundred and fifty-five thousand salmon eggs. In all, for 1889 only one million three hundred and twenty-nine thousand eggs.

The reason why this small number of eggs (three hundred and fifty-five thousand) was received in the second run from the United States Hatchery, was because of the heavy early fall rains, which raised so great a flood in the McCloud River that it swept out all their traps, and put an end to all fishing for that season. This shows how important it is that the close season for salmon should be so definitely fixed that sufficient numbers of breeding salmon should reach the United States Hatchery in the month of September, so that a sufficient supply of eggs for artificial hatching could be caught at that time to supply the young for stocking the rivers of our State, and not depend upon the late fall

run, which is so uncertain on account of the liability to floods, which makes it impossible to secure the salmon.

The young fish from the first run of salmon eggs were compelled to kept, on account of the furious snowstorms of the past winter, till in February and March, of 1890, and then distributed, the boys using snow shoes and hauling them out on handsleds. The second run was kep till March and April, and was distributed, same as the first lot, in the Sacramento River and its branches. Many difficulties had to be encountered this year; owing to the great snowstorm. For weeks there was almost continuous shoveling of snow, to keep it away from the windows of the hatchery, to obtain some light to enable the attendants to see to do their work.

The young fish had to be put on short rations during the great snow blockade, on account of the scarcity of meat.

#### EASTERN BROOK TROUT.

The Eastern Brook trout, with its brilliant scarlet spots, mottled green back and lower fins red and fringed with white, is one of the most beautiful fish in the world. It is gamey and has a delicate flavor.

Our first Board of Fish Commissioners thought they would be a valuable acquisition to our trout streams. They introduced the eggs of these fish from New Hampshire in 1876; these were hatched out and distributed from their first hatchery on the University grounds at Berkeley. They continued the introduction and hatching of these fish for several years. The fish were distributed in many hundreds of thousands into the streams of Alameda, Marin, San Mateo, Santa Cruz, Santa Clara, and Monterey Counties; also, in the high Sierra Mountains, above the falls of the Yosemite Valley, on the headwaters of the Yuba and North Fork of the American River, Prosser Creek, a branch of the Truckee River; also, in Cold Creek, at Sisson, a small branch of the headwaters of the Sacramento River. In all these short coast streams, which become warmer and diminished in volume as the summer advances, they have not reproduced themselves—at least, I cannot learn that any have been caught for a number of years past; but in all the high Sierra streams where these trout were planted, they can now be caught quite plentifully. The integrity of their characteristics in all their virgin beauty is maintained. A number of these fish were caught during the past summer in Blackwood Creek, Lake Tahoe.

About four years ago a few of these fish were planted in a small lake on the mountain side back of McKinney's place, Lake Tahoe. Last year Mr. McKinney told me that a number of Eastern trout had been caught in that little lake, one of which weighed three pounds. He said they were fierce fighters, and had a delicious flavor. Some of these Eastern trout have been caught thirty miles down the river from the place where they were first planted in the North Fork of the American River. It seems to me very probable that the Eastern Brook trout, as they become older and larger, will drop farther and farther down the main stream and ascend other branches to spawn, and, thus becoming acclimated, will gradually stock all the streams in the State accessible from the first stream in which they were planted. From the Tahe Hatchery, Lake Tahoe: Fallen Leaf Lake and the streams which empty into these lakes, the numerous small lakes on the mountain sides, the

Middle and South Forks of the American River, as well as the headwaters of other rivers farther south; also, the North Yuba and Feather Rivers could be stocked with these Eastern Brook trout.

From the Sisson Hatchery, these trout could be planted in the headwaters and branches of the Upper Sacramento and McCloud Rivers, and

also in the headwaters of the Trinity and Klamath Rivers.

It seemed to me to be such a public good that these trout should be systematically planted in all these mountain streams, so that anglers could catch these speckled beauties during their vacations for health and pleasure, that I asked of your honorable Board permission to buy one hundred thousand Eastern Brook trout eggs. They were shipped from Mr. Livingston Stone's trout hatchery, Charleston, N. H. These eggs were hatched out during the past winter at the Sisson Hatchery. From these eggs, which came about four thousand miles, we got about eighty thousand of fine, healthy trout: these were kept in the hatchery for several months waiting for the snow to melt so that the roads could be opened to the McCloud River and other places. As soon as these fish could be shipped, about thirty thousand were planted in spring brooks which feed the upper McCloud River, near the Horseshoe Bend at the eastern side of Mount Shasta. Twelve thousand were planted on the application of Senator Stanford in Deer Creek, a fine stream which rises in the Sierra Nevada Mountains and empties into the Sacramento River, near Vina. The balance of the trout were planted in the West Fork of the Sacramento River, and also in School House Spring and Kaiser's Creek, branches of the upper Sacramento River: also, in the headwaters of the Shasta River, Griffin's Springs, Wadsworth Springs, Big Springs, and in Shovel Creek, branches of the Klamath River. The Eastern Brook trout cannot but do well in all of these places, as there is plenty of food and the water is cold. I consider that it is worth all the expense and trouble many times over to have the famous McCloud River stocked with these fine fish. In order to get these waters well and permanentely stocked with these fish, several years of continuous stocking should be done.

#### TROUT HATCHING AT SHOVEL CREEK, 1890.

There had been complaints because no trout had been planted in the vicinity of the bay of San Francisco during 1889, but as a food fish was of the first consideration, a hatchery large enough to accommodate the donation of salmon eggs from the United States Government had to be erected. The Tahoe Hatchery was built during the next spring and summer, and the season's work carried on there. This work was all done in hot haste, and, with shipping the Black bass, we had no time to spare. Our help was all engaged and the money getting short.

To ship trout from Tahoe to streams around the bay would take at least four days' time, and the trip is very expensive, nearly \$100 a trip.

These two large hatcheries, with appointments and quarters for the men, with the large number of salmon and trout distributed, were paid

for solely from the regular appropriation.

To meet the wants of the anglers in having the streams stocked with trout, I began to prospect early in the winter of 1889 for a station where the Rainbow trout could be caught in sufficient numbers to make it an Object to build a small hatchery, eye their eggs and then ship these eggs to the Sisson Hatchery, hatch them out and from there ship the young fish to stock the streams of the State as well as possible.

The Shasta River, in Siskiyou County, had been famous for its great numbers of trout. I looked at that and made close inquiries, and found that but few trout run up that stream now in comparison to the great numbers that formerly did so. And no wonder, for the water has been taken out of that river for years, and from the famous springs which help to supply its volume of water, through open irrigating ditches, with no screens to keep the trout from being drawn in and distributed through the grass to die. A gentleman, who formerly owned a farm near Edge wood, told me that he had found fully thirty thousand dead young trout, which he discovered in holes after the water in his ditch had been turned off. This number is one instance. Now, taking the same ditch through the whole season and adding this to the other ditches in Shasta River Valley, and the numbers of trout destroyed in this way would amount up into the millions.

I also heard of the Shovel Creek, at the Klamath Hot Springs, as a wonderful trout stream. I visited that place, and received the generous permission of the Edson Brothers to trap that stream for trout spawn and establish a small hatchery on their grounds. I was told, however, that but few salmon and trout had made their appearance there during the preceding fall, on account of the dam which had been put in at Klamath City. It had been complained of, and a small fish ladder had been put in, large enough for a small stream, but a wee thing for such a roaring river as the Klamath, with its immense volume of water pouring through the sluiceways with such force that a trout could not stem the current. The fish ladder, with its minute quantity of water, was away at the end of the dam, next the bank, where only a straggling trout or

salmon would find its entrance.

I felt discouraged at the prospect of finding a good place for a trout hatchery. The heavy storms drove me home, but as soon as the snow blockade was broken I went up to that region again, and found that the elements, although fierce, had been propitious to trout, which by instinct were compelled to seek the upper Klamath for spawning beds, for the great volume of water, higher than ever known before, had ripped out the dam at Klamath City, and the trout had an unobstructed highway.

I immediately began, early in March, 1890, fitting up a small building, which Mr. Edson loaned me, with hatching troughs flumed in the water, and began building traps for Shovel Creek. The hatching baskets for trout eggs had been built at the Sisson Hatchery during the winter in anticipation of using them there.

Shovel Creek is quite a large stream which empties into Klamath River, within the grounds of the Klamath Hot Springs Hotel. Many of the trout which were spawned would weigh two and one half pounds.

After getting the hatchery in working order and a few thousand trout spawn taken, leaving Mr. Richardson in charge, I went to the Sisson Hatchery and left Mr. Stewart in charge to distribute what salmon were left, to look after the Eastern trout which were being kept until the roads would be open to ship part of them to the McCloud River, and also to receive the trout eggs which were to be sent from the Shovel Creek Hatchery.

#### TAHOE HATCHERY, 1890.

I now proceeded, accompanied by Mr. Hunt, to Lake Tahoe to open the spring campaign there. The road not being open from Truckee, we

had to go up by way of Carson.

On arriving at the hatchery, our house we found buried in snow—it had been twelve feet deep on a level, but in places the wind had drifted it to a great height. After putting new wings to the bag of the old seine, we hired the steamer Tod Goodwin to take our traps, seines, boats, bedding, and provisions up to the mouth of Taylor Creek, twenty miles at the uppermost end of the lake. The steamer also towed up the scow Lillie Van, which was already fitted up with rooms, stove, and cooking outfit. This scow we hauled into the stream: it was to be our home while seining in the lake at the mouth of the creek. The seine was hauled three times a night: once just after dark, again about midnight, and once again before daylight. Some of the nights were so cold that the seine would freeze stiff five minutes after it was hauled out of the water. A bonfire burned while hauling the seine, casting its light over the water; the boatmen could thus see what ground to go over in paying out the seine and rowing in.

They would catch at one haul from five to ten, fifteen, or twenty trout, a few times more and sometimes not any; and many nights the seine could not be hauled on account of the rough sea. A great many Suckers were caught, sometimes as many as three hundred pounds weight at a haul. Some Whitefish were also drawn in. The Suckers were so plump that it was thought they must be full of trout spawn; twelve were opened and not an egg was in their stomachs; but the Whitefish,

although small, were full of trout eggs.

The seining continued here some time, till no more trout could be caught. Mr. Burton and I went up the creek to the dam, but we did not see half a dozen trout.

The trout we caught were nearly all ripe; only about seven hundred thousand trout eggs were got at this place. Mr. Burton and Mr. Sam Nichols, who had fished in the lake many years, had prophesied that we

would get here all the spawn we wanted.

The seine was drawn through the spring and summer at Meek's Bay, Blackwood Creek, and at the Incline, in Nevada. Traps were put in at Meek's, Phipps', and Blackwood Creeks. The creeks were so high, especially on a hot day when the sun would melt the tremendous snows of the past winter which fell on the headwaters in the Sierra Nevada Mountains. The streams would rise in a tumultuous volume of icy, roily water, which made it very difficult to put in the traps; and after a trap had been put in Blackwood Creek, the water rose two feet over all, tearing the trap out. The trap was put in again, but it was a trying work for the boys: Hunt, Will and Joe Shebley, who, after working in that icy water all day, slept on the banks of the creek in their wet clothes. Fishing was continued up to about the last of July, when the traps were all taken out.

There is usually a large run of trout up Blackwood Creek in March. Some time after we got up there a gill net was set in the current outside the mouth of Blackwood Creek, and nineteen fish were caught, weighing over two hundred pounds—one weighing a little over sixteen pounds. These were towed behind a rowboat, tandem fashion, for about five

miles, by putting a line through the sides of their mouths and fastening it to a toggle of wood; these fish pulled back with the strength of donkey; they were not ripe, and were put in the settling tank. On the following day, when Will was away on the steamer to Taylor Creek for spawn, six of these large fish were stolen.

The gill net was set every night afterwards for awhile, but the ru was over and only a few more were caught. Some of the fish wen spawned, and turned out about five thousand of fine looking eggs each

The past winter was the hardest ever known here, and the snows the deepest. Those who lived at Tahoe said that it snowed almost continu ously all the winter. The streams have been booming with icy water all the summer. For some cause but very few fish run up the streams The fishermen said that the season was a month late, and that the fish would run up by and by; but it was not to be. They all said that the fish must have spawned in the lake. Lake Tahoe was as low as ever was known last fall, and since then it has risen about six feet, being about as high as ever was known; it has also been unusually rough this

A new wharf has been built near the hatchery; a second-hand book has been bought, and also a scow for seining and for shipping cans of fish. A great many tourists have visited the hatchery, and expressed their admiration of what they see outside of the hatchery as well as inside.

#### BLACK BASS, 1890.

About August first Will Shebley left the Tahoe Hatchery to go to Sans Francisco to begin shipping Black bass, leaving Mr. Hunt, who has had charge of the Tahoe Hatchery, with Joe Shebley to distribute the trout now on hand there. After the Tahoe Hatchery is closed for the season, Mr. Hunt will go below and help distribute the Black bass and trout from the Sisson Hatchery. Mr. Richardson will ship trout till the salmon hatching season opens, in the last of September, when he will be stationed at the Sisson Hatchery. The Black bass which we are catching now from San Andres reservoir are from six to nine inches long; these will probably spawn next spring. Seventy-five to one hundred of this size is all one man can conveniently and safely handle on a long journey.

This year, 1890, shipments have been made as follows: One to the Del Monte reservoirs, at Monterey, for the railroad company; one to the Blue Lakes, in Lake County; one to Clear Lake (two shipments were made to this large lake last year); one to the Pajaro River, near Sargent's Station; and one to a lake near San Luis Obispo.

Black bass distribution will continue this fall till as late as possible

#### RAINBOW TROUT AT SHOVEL CREEK HATCHERY, 1890.

Trapping in Shovel Creek continued till about the first of July. The water was unusually high, on account of the deep snows on the mount ains. About one million six hundred thousand eggs of the Rainbow trout were taken and eyed there; of these, one hundred and thirty thousand were hatched out and distributed in Shovel Creek—this was to give back the seed for the future from the harvest of eggs which we had gathered there.

One hundred thousand eggs were shipped to the North Pacific Games

and Fish Club, and were hatched out by Mr. A. V. La Motte, at his hatchery in Glen Ellen; and which, he writes me, were distributed in Sonoma and Robinson Creeks, in Sonoma County and Mendocino County, respectively. This club, by permission of your honorable Board, trapped Sonoma Creek last winter for spawning trout, and Mr. La Motte reports that fifteen thousand native trout were restored to that

One hundred and fifty thousand eggs were shipped to Mr. Alex. Badlam and hatched out in his trout hatchery at Arcadia, near Mount St. Helena. These were—part of them—for his ponds, and the rest, Mr. Badlam writes me, were distributed in streams, as follows: In Sulphur Creek, near the Geysers, in Sonoma County; in Lokonoma Creek, Anderson's Creek, Grizzly Creek, and Bradford's Creek, in Lake County; in Bear Creek, near Arcadia, and Troutdale Creek, Napa County. Mr. Badlam trapped Bear Creek last winter for spawning trout (with permission of your honorable Board), and reports that he restored to that stream fifteen thousand native trout as the result.

Fifty thousand eggs were shipped to Mr. Knowles, who has a hatchery near Alma; these were hatched out all right, but by some mishap they did not do well. I shipped a second fifty thousand to him, with which he had good success. These were distributed: about twenty thousand in Bear Creek and Deer Creek, branches of the San Lorenzo Creek, in Santa Cruz County; the balance was divided between his own ponds and a

branch of the Los Gatos Creek.

Fifty thousand eggs were shipped to the hatchery at the Hotel Del Monte; this lot did not do well through want of experience and the high temperature of the water, owing to its being so low in the reservoir from the main pipe having washed out last winter. I shipped a second fifty thousand eggs there; they hatched out, and, with more experience on the part of the attendants, did well. These have been distributed in their reservoir and in the Carmelo River.

The hatching out of these eggs sent to private hatcheries, their expressage from Shovel Creek, and the distribution of the young trout, has been done free of expense to the Commission. This saved to the Commission the cost of distribution of the young fish from the Sisson Hatchery, which would have been a large item, and was also the means of stocking many streams which would otherwise have been impossible this year.

I visited the Del Monte Hatchery several times, Mr. Knowles' hatchery twice, and Mr. Alex. Badlam's hatchery once, to give instruc-

Hon. A. R. Williams, Ramen Wilson, and a number of other gentlemen have made arrangements to build a trout hatchery at Webber Lake for the purpose of maintaining the supply of trout in that and Independence Lakes and in the streams in their vicinity.

The thanks of the Commission and of the people of the State are due Mese gentlemen for their unselfish interest and laudable efforts in

behalf of the fishery interests of the State.

I am satisfied that the efforts of these gentlemen will meet with every success, and that they will at all times receive the encouragement and Appert of the Commission.

Fifty thousand of these Rainbow trout eggs were shipped to the State

atchery, at Tahoe, on application of Commodore Todman; these were

hatched out and planted in the Truckee River below the dam at the outlet of Lake Tahoe.

REPORT OF STATE BOARD OF FISH COMMISSIONERS.

The balance of the eggs, about one million, was shipped to the Sisson Hatchery; these eggs and the young fish did finely in the cold water a Sisson. They have been fed in the troughs for several months awaiting shipment.

After the eggs were all taken at Shovel Creek, Mr. Richardson began shipping these fish from Sisson for distribution, taking ten cans at trip, and about three thousand fish in a can, or thirty thousand to each trip, which are as many as it is safe to handle on a trip in hot midsummer, the round journey averaging about eight hundred miles, and taking about three days' time.

A trip with this number has been made to Lagunitas Lake, Marin County, and to about five miles down the Lagunitas Creek, below the dam; also, to the following places: to Crystal Springs Reservoir, San Mateo County; to Alminitos Creek, near the New Almaden Mines; the Guadaloupe Creek, Saratoga Creek, and to Smith Creek, near Mount Hamilton, a branch of the Calaveras Creek; to the Arroyo Mocho, twelve miles south of Livermore, and the Calaveras and the Alameda Creeks, near Sunol; to Monterey County, for branches of the Salinas River, near Salinas and Soledad; to Bowlder Creek and other branches of the San Lorenzo Creek, in Santa Cruz County; to Almao for the Los Gatos Creek, in Santa Clara County; to the San Gregorio Creek, over the mountains from Redwood City; to Gilroy, for the Uvas Creek; to the Lagunitas or Paper Mill Creek; to Napa City, for branches of the Napa Creek; and to a small creek, near Santa Rosa, a branch of the Russian River.

Arrangements have been made to ship these trout to Dr. Smith, of Placerville, for the American River; also, to Judge McD. R. Venable, in San Luis Obispo County, for streams there; to the Sonoma Creek, Cache Creek, in Yolo County, and other places. We shall continue to ship these trout until their trough room will be needed for the salmon at Sisson, or until we are admonished to quit shipping to save funds for our winter and spring work. These which are not shipped to the central and southern parts of the State, will be planted in the Sacramento River. There have been already planted during August, 1890, in branches of the Sacramento, one hundred and fifteen thousand, distributed thus: West Fork, Sulloway's Creek, Cold Creek, School House Spring Creek, and near Peter Klink's place. The balance for the Sacramento will be distributed below the eighteenth crossing.

During both seasons of our work at Lake Tahoe, in 1889 and 1890, Commodore Todman has been exceedingly generous in his aid to advance the work of the Fish Commission by giving at all times free transportation on the steamer Tod Goodwin to all parts of the lake, shipping our racks for traps, fish cars, seines, towing the boats to the different streams, shipping our supplies, and also giving almost daily passage for the men in their traveling to the creeks where the traps were, for eggs, and in shipping the trout for distribution.

Captain Wherman and his men on the Tod Goodwin have also been very kind and willing in helping us, by doing many errands at distant points of the lake. Mr. Lawrence, of the Tallac House, and Captain Holt, also generously gave us free passage on the steamer Tallac. The citizens around the lake gave us many accommodations.

It would have been impossible for the Department of Hatcheries and the Restoration of Fishes to have done with its small funds the amount of work it has accomplished without the generous help which the Southern Pacific Railroad Company has extended in giving an annual free pass to the Superintendent to all parts of our State in his frequent trips to the hatcheries from San Francisco; also, in giving free passage in the baggage car for the salmon and trout eggs and all the cans of trout in the many shipments for distribution from the Sisson Hatchery, in the shipments of Black bass, and free passage for the attendants with the fish. The railroad people were very kind also in giving us the use of a handcar and right of way on their road in shipping the young salmon down the Sacramento for distribution. I would like to give an instance in which the railroad people have shown their kindness to the Fish Commission, and at the same time show why but few salmon have been up the Sacramento to spawn during the fall run for a long while past.

I was told by different parties that at a point on the Sacramento River, near the railroad tunnel No. 3, there was a horseshoe bend in the river; through the neck of this bend a mining company, years ago, had made a tunnel to drain the river in the dry season, so that they could mine the bed of the river around that bend. In August and September, when the salmon make their great migrations to their spawning beds, it was noticed that for years past but very few salmon made their appearance in the Sacramento River above the bend, while in early times the salmon went up in thousands.

In August and September the river is very low, and most of the water went through this tunnel, leaving so little water in Horseshoe Bend that it was almost impossible for the salmon to make their way up, while they congregated in thousands at the lower end of this tunnel, where the volume of water came through with such force, and made such a jump off into the river below, that the fish could not get up. Here the Indians, and also white men, would assemble, and while the salmon were using up their strength in continually making ineffectual efforts to leap up into the tunnel, they would destroy them with grab hooks and nets. This point is but a little way above where the Pitt River joins the Little Sacramento.

I determined to stop, if I could, this destruction of salmon and give them a chance to get up on their spawning grounds and deposit their eggs. I went down to this tunnel and made an examination, and saw at a glance that the railroad people—with their ties and old bridge timbers, with their handcars to carry them to the tunnel, and the crews of road repairers to do the work of putting in the timbers to face the tunnel, and blasting down the overhanging bank to fill up the open cut—could do the work much cheaper than I could. So I called at Fourth and Townsend Streets and told my story to the railroad people, showing the importance of this tunnel being closed up, that the salmon now being stopped there might not be hindered in making their way up the river to their spawning grounds; and asked them if they would not, as a great favor, have this job done by their men and send in their bill of expenses to the Fish Commission. They readily assented to have the work done, and, at the same time, said that if it did not cost too Much, no charges would be made. In a short time they had the tunnel closed (1889), but, owing to the great pressure of the waters in the gods of the present year, 1890, the dam at the tunnel was torn out.

During the past summer it has been closed again, and the salmon wil

now have an unobstructed highway up the river.

The Fish Commission is also under obligations to the San Francisco and North Pacific Railway for free transportation, and also to the North Pacific Coast Railroad, both giving the use of their baggage cars and free passes for the attendants over their lines in shipping trout and Black bass for distribution.

I wish here also to acknowledge the many courtesies and aid extended to the Fish Commission by the many applicants for trout and Black bass, who have furnished teams to transport the fish and attendants from the railway station to the streams for planting; also, to Mr. J. H. Sisson for the use of the ground and the water for the Sisson Hatchery, and to the Edson Brothers for the use of the ground for the Shovel Creek Hatchery on their hotel grounds, and the privilege of trapping Shovel Creek for trout.

#### HAT CREEK.

I visited Hat Creek to see what advantages the State Hatchery there offered for hatching salmon. The hatchery at Hat Creek is a large building one hundred feet by forty-six feet, with sixty-four troughs sixteen feet long and twelve inches wide. The building has settled at its upper end owing to poor underpinning; the troughs have the grade the wrong way. The dependence for water is from a ditch owned by private parties, who use it for running machinery. The water comes through the ditch from up Hat Creek, and the ditch is dug through a formation of infusorial earth which is disintegrated by frost, making it very loose and friable; it crumbled into the water in the ditch, and was held in suspension in such quantities that it covered up the eggs in the hatching troughs.

The proper way is for the Commission to have entire control of the water for the hatchery. Copartnership in a ditch causes trouble, and the water is liable to be turned off entirely from the hatchery, which would cause, if it lasted for a few hours, the entire loss of all the fish and eggs. The water could be brought into the hatchery by an undercurrent wheel built in Hat Creek, near the upper end of the hatchery, which would give a large quantity of clear, cold water, and would, if built strongly, give a certainty to the continuousness of the supply; for Hat Creek never rises, as I have been informed, over eight inches above low-water mark. Hat Creek has a large volume of water at all seasons.

I think the more suitable place for the hatchery would be at the confluence of Hat Creek with Pitt River, on a point of land about two miles below the present site of the hatchery, where a large spring flows of clear, cold water; and as it is at the lower end of a fall or riffle in Hat Creek, a ditch of short length could be cheaply made to bring water for ponds. Opposite, and close at hand, is a seining place in Pitt River, and at this point, also, in Hat Creek, a trap could be built, as well as in Pitt River, to trap salmon and trout for spawners. The hatchery and spawning traps would be close together, which is of great importance for accommodation and security. (Fourteen years ago, when the old Board of Fish Commissioners gave me instructions to survey the Pitt River Falls, I selected this place as the most suitable for a salmon hatchery, if one ever should be built on Pitt River.)

There are not many salmon running up Pitt River, it is said, but if these

were caught and spawned, and the numbers supplemented by eyed eggs sent from the United States Hatchery on the McCloud River, a plant of two millions could thus easily be deposited in Pitt River and Hat Creek, which would be good nursery grounds for these fine fish to increase their numbers on the fishing grounds of the lower Sacramento River.

#### THE CLOSE SEASON FOR SALMON.

To prevent any depletion of our rivers, while the present great draft upon their fish supply is going on, to meet the demands of the canneries and the local markets, it is necessary that a sufficiently large number of young salmon should be hatched out naturally as well as artificially. It will be impossible to keep up the supply of salmon from artificial hatching alone for this reason, that the nursery grounds, which are accessible to distribution of the young salmon that are hatched artificially, are not extensive enough to meet and fully supply this great demand. We must have the aid of the salmon of the spring run to supplement our efforts, by stocking the highest mountain streams. The young salmon should be placed upon a great extent of nursery grounds for food and protection, to keep up the supply of mature salmon to return from their stall feeding in the ocean.

In order that this may be successfully accomplished, it is essential that the close season for salmon should be sufficiently long to give a free highway to enough breeders to ascend to the extreme headwaters of the salmon-breeding rivers to deposit their spawn over a large extent of nursery grounds beyond where teams can go to distribute cheaply the young fish from artificial hatching.

There are two great runs of salmon up the Sacramento River: one in March, April, and May, and another in August and September; but salmon are caught in considerable numbers during every month in the

#### RUN OF MARCH, APRIL, AND MAY.

It is very essential that a close season of two or three weeks in the month of April be enforced, in order to give a clear road for the passage of a part of the cream of the great run of the salmon in March, April, and May. It is the salmon from this run which reach the upper waters of our rivers, where they are almost inaccessible to man. Especially is this the case on the McCloud River. Above the United States Salmon Hatchery, which is about two miles from the confluence of the McCloud with the Pitt River, there are only four white men and but few Indians; and above the last white man on the river, eight miles beyond the United States Hatchery, for some sixty miles, till you reach "Horseshoe Bend," there is scarcely a soul to be found, when the spring run of salmon go up, to "molest or make them afraid" when passing through this long reach of the best salmon-breeding river in the world.

It is a fact well known to fish culturists that the winter and spring of salmon, during the high, cold waters, go to the extreme headlaters of the rivers if no obstructions prevent, into the highest mount-

They are in the very best condition when they start on their long meys. Nature has implanted in them the instinct to begin their mey while the spawn is yet small, that it may not become full grown

and ripe for depositing until they reach their far-distant spawning

As they eat nothing while on their journey up the rivers, and with their fighting and exertions to overcome this distance, a great deal the way being through a swift, racing current, and also with a constant draft upon their own vitality to mature their spawn, they become much exhausted and emaciated.

These fish cannot be used for spawning artificially, for at this season the waters are too high to catch them, and they are too unripe when they pass the United States Hatchery on the McCloud River to catch and impound them; in the attempt to keep them till they become ripe they would all die before they were ready to spawn. They will kill them selves if kept long in confinement, in their frantic efforts to get free to ascend to their spawning grounds.

#### THE CLOSE SEASON FOR THE AUGUST AND SEPTEMBER RUN.

The spawning time at the Government Hatchery on the McCloud River for the great run of salmon in the late summer and fall is principally during the month of September; it usually opens about the twenty-eighth of August and continues until the latter part of September

The vital points of the question in considering the time for the close season are: At what time should the close season begin at the fishing grounds on the lower Sacramento River, and how long should it last in order that enough breeding salmon from the great run during the months of August and September may reach the United States Hatchery on the McCloud River, during the month of September, to furnish sufficient eggs for the artificial hatching of young fish for distribution on the nursery grounds to maintain the supply of mature salmon for food, which the rivers for nursery grounds and the ocean for feed till the salmon are matured, are capable of producing?

Ten years ago, during the administration of B. B. Redding, S. R. Throckmorton, and J. D. Farwell as Fish Commissioners, as many as fourteen millions of salmon eggs were taken during the month of Sertember from the fall run of salmon.

The close season at that time was during the month of August.

The close season is now, and has been for some years since, during

the month of September.

The Government Hatchery, on the McCloud River, renewed its oper ations in 1888. The number of eggs taken in September, 1888, was only about one million five hundred thousand; and in 1889, only about one million one hundred thousand eggs: or, averaging for the two years, less than one tenth as many eggs as were taken ten years ago when the close season was during the month of August. This is a loss of 90 per cent.

For what cause, or by whose agency the close season was change from the month of August to the month of September, I do not know It was certainly a very disastrous change, if the interests of the salmod

were considered.

During the last Legislature, in 1888, a bill was introduced by some one—from Solano County, I believe—to change the present close season for salmon from the month of September to the month of October.

If this bill had become a law, the close season would have been

pushed entirely beyond the season of the great run of salmon. "Give them an inch and they will take an ell," if they can get it.

It is of the utmost importance that the close season should be placed back again to the month of August. If more salmon do not reach the McCloud River during the month of September than have arrived there during the past two years, serious consequences will happen to the salmon industry of California.

By changing the close season for salmon back again to the month of August, it can easily be determined if the run of salmon has lessened

during the past ten years.

If as many salmon do not arrive there during August and September as did ten years ago, or if an insufficient number got up during that period from which to secure the number of eggs necessary for artificial reproduction, then it will be imperative to include part or the whole month of September in the close season, in addition to the month of

I see no reason why this change should have been made in the close season, unless it may have been to accommodate the canneries and fishermen on the lower Sacramento in securing greater catches of salmon.

If there is any accommodation to be done in the matter, it should be towards the salmon which are trying their best to reproduce themselves in the effort that their kind may not be diminished, and not to those who are doing their best to destroy the salmon for the future that they may fill their pockets to-day, and "kill the goose that lays the golden

Can it be possible that the people of this State will allow a great resource of food supply, which Nature has planted in our rivers, to be endangered by the remorseless destruction going on in the effort to catch every salmon that attempts to go up to the spawning grounds?

The following valuable communication has been received from Mr. Geo. B. Williams, Jr., and I take great pleasure in submitting it to the consideration of your honorable Board, as it so strongly represents the facts of the case:

Mr. J. G. WOODBURY, San Francisco:

DEAR MR. WOODBERY: Yours of the fifth at hand. Two years of experience in charge of this station on the McCloud has convinced me that unless some action is taken by the Legislature and those interested in the propagation of salmon as a food fish, to include the month of August as well as that of September in the close season, not many years will clapse when this valuable food fish will become almost extinct.

BAIRD, CAL., July 8, 1890.

On account of the high water we are liable to have at this point during the spring and late fall runs, it is impracticable to secure and spawn by artificial methods the parent hat; but the August run comes at a time when it can be handled successfully. In order to allow this run to reach the headwaters of the Sacramento River and its tributaries, the months of August and September should be reserved to allow a free passage of salmon.

I draw my conclusions from the fact that in previous years, when there was no fishing with seines in the Sacramento to speak of, thousands of salmon collected here during the stater part of August and during the month of September, and we found no difficulty in securing all the eggs we could handle, fourteen million ova having been taken in one season. From the August run in 1888 but one million five hundred and sixty-eight thousand six hundred eggs were secured, and in 1889 one million one hundred and five thousand were taken. In 1888 the season's take was increased to five million five hundred and five thousand were taken. ted and four thousand six hundred, by securing ova from the late run in October and November. But this was something unusual, and could not have been accomplished ad it not been that the rains did not set in until December of that year. An attempt made in 1889 to take the late run, but rains in October caused the McCloud to become Thigh, and racks and dams were washed out, allowing the parent fish to ascend the read small creeks above the station.

It is very hard to decide how long it takes the salmon to reach their spawning grounds.

they leave the seining grounds of the lower Sacramento, but as near as we can tell, on two to three weeks.

As you know, the work done at this station is almost entirely for the State. It seems if it should be the aim of the people to do all in their power to aid the United States Fa Commission to accomplish its object by making laws that will protect this valuable for fish.

Much more could be said regarding the tremendous decrease in late years of the salmon, but I think I have advanced sufficient reasons to show that a longer close season is necessary to make a success of our work. It is a question that should be seriously considered and acted upon at once.

(Signed:)

Yours truly.

GEO. B. WILLIAMS, Jr., Superintendent of Station,

#### STRIPED BASS.

There were brought to this coast in 1874 some one hundred and fifty Striped bass, about one and one half inches in length. From these quite a number of mature fish were caught in years afterwards, but it was not certain that they had reproduced themselves, and it was thought best to have another shipment of these fish brought out to this coast, to make it as sure as possible that these excellent fish should become familiar in our waters.

By instructions of the Board of Fish Commissioners, B. B. Redding, S. R. Throckmorton, and J. D. Farwell, in 1882 I brought out from the Shrewsbury River at Red Bank, New Jersey, just above Monmouth Park, a shipment of Striped bass, running from five to nine inches in length, and planted them in Suisun Bay, at Army Point. Quite a number of these have been caught from year to year, increasing in weight every year. Last year several were caught weighing over twenty pounds, and during the past winter one was caught weighing thirty-five pounds.

I have been watching for the young fish, the progeny of those brought out in 1882, and during the past spring, on my return from a trip to Tahoe Hatchery, I heard that they were being caught by the thousands and offered for sale in the market. I hurriedly went up to the market to see if it were true. I found there a lot still unsold, averaging from one half to three quarters of a pound in weight. I was delighted to see them, knowing that those brought out from New Jersey must have kept together in the muddy waters of our bay till they matured and spawned, and their young had been successfully reared.

But knowing that the young Striped bass run in schools, I became alarmed lest the many Chinese nets in our bay and the lower Sacramento and San Joaquin Rivers would soon destroy the greater part of them, which would be a great pity, as they had cost so much money, trouble, and time in waiting for them to reproduce themselves. And if these young fishes could remain unmolested for a few years longer, till they themselves had spawned, our bays would be full of these splendid fishes. Certainly this would be a great acquisition to the whole Pacific Coast

I immediately visited the newspapers, and they kindly published a notice of the arrival of the numerous strangers, of their great importance, and the danger of their destruction if they were not protected.

Your honorable Board petitioned the Board of Supervisors to pass at ordinance to prohibit catching them under eight pounds in weight. This they quickly did. A similar petition it would be advisable to present to the Boards of Supervisors of Marin, Sonoma, Solano, Contra Costa, Alameda, San Joaquin, and Sacramento Counties. The young bass will most certainly visit the waters of all these counties, and their protection for a few years is of vital importance.

I have since learned from the market men that from three to four thousand of these fish were sold in the market before the ordinance was passed, and that it has since been in the newspapers that these fish have been caught and sold in other counties around our bay.

The arrival of so many young of this fish at one time in our markets, shows conclusively that the Striped bass have successfully reproduced themselves in our waters. Our anglers may anticipate some grand sport in a few years.

I am happy to give the people of California some desirable information about this useful fish, and take the opportunity of appending to my report a valuable paper taken from "The Fisheries and Fishing Industries of the United States," by George Brown Goode.

NECESSITY FOR A TROUT HATCHERY NEAR SAN FRANCISCO AS A DISTRIBUTING

California is a large State in territorial area, approximating to three times the size of the State of New York.

The headwaters (the breeding places for trout and salmon) of most of the large streams in our State are far away from the railroads, and are also in high altitudes. To reach these is, in most instances, a weary road to travel by stage coach and teams, and in some cases by horse-back only, following Indian trails through almost impassable cañons and mountain gorges

The Sisson Hatchery, which is at present the distributing point for the Rainbow trout, is about seven hundred miles from the southern border of the State, and applications for trout come in from Siskiyou to San Diego Counties.

To distribute fish into these streams over such a vast territory is very expensive, and the cost is much increased by the many difficulties in getting to their headwaters with teams heavily loaded with ice and cans of water, over the long, hot valleys, and up steep mountain roads.

It is also unsafe to transport young fish in large numbers over such

long distances.

To ship half a million of eyed eggs is comparatively inexpensive to what it is to ship the same number of young fish. Thirty thousand young trout in eight to ten cans of water is as much as it is safe for one man to carry on a long journey. This means half a ton of water and hundreds of pounds of ice.

Express charges for this great weight are heavy; the cost of the ice, railroad fares to and fro, teams to transport the fish from the railroad to the streams (sometimes for sixty miles to their headwaters), hotel expenses, and telegraphic charges rapidly eat up our funds.

Two men are compelled to go on long journeys to care for the fish, as the water in the cans has to be almost continuously aerated night and day to give the fish fresh air to breathe, and the water in the cans

requires occasional changing.

A trip with trout from Sisson to the southern part of the State consumes nearly one week's time, which is very dangerous to the safety of the young trout, and limits the number of trout which can be distributed. To make these journeys shorter and less expensive, with saving of time, and with more certainty that less fish will be lost in their transporta-

tion, it is essential that a string of hatcheries should be established as done in other States.

We have already built and equipped two extensive hatcheries: one at Lake Tahoe as a point for distribution for the mountain region and the eastern slope of the Sierras; and a large hatchery at Sisson, which was built for the purpose of stocking the Sacramento River with salmon. This can be used as a distributing point for the northern part of the State for trout also; and a small hatchery on Shovel Creek, which is for eyeing the eggs of trout to be shipped to other hatcheries as distributing points.

Now, it is very essential that a hatchery with nursery troughs (space sufficient to accommodate one million of young trout till they begin to feed, or till they are old enough to be distributed in the streams) should be built during the coming winter in or near San Francisco, as a distributing point for the waters in Central California, to which the eyed eggs can be sent from Shovel Creek or some other hatchery.

A plain hatchery for this purpose, well equipped, with quarters for

the men, would probably cost from \$1,000 to \$1,200.

The demand for trout will be the greatest from a hatchery here to keep up the supply in the many streams in this part of the State, to meet the growing wants of the many anglers in the counties surrounding the bay of San Francisco.

This place is also the center from which radiates all the many routes of travel by which the trout can be conveniently shipped to all parts of

the State without delay.

After full consideration of these matters by your honorable Board, if I have presented the subject in a proper light to convince you of its importance, I would suggest that a petition be presented to the incoming Legislature in the first days of its session to make an appropriation of \$1,000 to \$1,200 for a new hatchery and its equipment and quarters for the attendants, the money to be immediately available, so that work can begin in time to have it finished to receive the first trout eggs in the early spring of 1891.

# APPROPRIATIONS FOR THE SUPPORT OF HATCHERIES AND RESTORATION OF FISHES.

As the field of fish culture and propagation is continually increasing the appropriation for this department must also increase with its development. The appropriations, owing to the immense area of California should at least approximate those of Eastern States (which are devoted almost entirely to hatcheries and the restoration of fishes). The State of New York, which is of one third less area, makes an annual appropriation of from \$30,000 to \$35,000 to enable its Fish Commission to carry out its work. This department is being continually hampered by want of funds, and is compelled to forego the necessity of making constant improvements. Efficiency, thorough and satisfactory, cannot be had without incurring expenses far above the present limited appropriation in the department embracing Hatcheries and Restoration of Fishes.

It is doubtful economy that hinders the cheapening of food for the

people.

It seems absurd to appropriate so small a fund as \$5,000 to foster and maintain the fish industries of this State. A resource furnishing a staple

article of food for the people—a cheap and plentiful supply of wholesome food—is of immense importance. The waters of California are almost unlimited in their capacity to produce fish food, but wanton destruction of fishes when they congregate at certain seasons of the year for breeding purposes, and the increasing demand on them to supply an increasing population with food, will soon largely diminish their numbers unless assistance is rendered by artificial reproduction on a greater scale than is being done at present.

When live stock is owned by private parties it is to their individual interest that the best care be taken of it to the end that it may make the most remunerative returns. But the fish which the waters of our State produce are the common property of the whole people, and it is not the duty of any one individual to see that the fish interests are

cherished.

#### AN ANNUAL APPROPRIATION OF TWELVE THOUSAND DOLLARS NECESSARY.

It follows that it is the duty of the Legislature to appropriate adequate funds to meet the expenses incurred in carrying out the work necessary to such an important trust.

This work embraces the artificial reproduction and distribution of young salmon upon their nursery grounds to keep up the supply to meet the immense draft upon their numbers as they annually migrate as mature salmon from the ocean to their spawning grounds, by the fishermen's many miles of network and seines, catching them to supply canners and the local markets.

If this work is not kept up from year to year, it is certain that their number will be diminished, and in time salmon will become as great a

rarity in California as they are to-day in New England.

The artificial reproduction and distribution of trout over this State to satisfy the increasing number of applications for these fishes to supply the depleted streams which our growing population in their search for health and recreation exhaust, it is far beyond the unaided powers of trout to keep the streams well stocked; and as far as the present appropriation for this costly work goes, it is only a make-believe towards accomplishing what the real work should.

It would be most desirable to continue the purchase of the eggs of the Eastern Brook trout—that pride of the trans-mountain angler—for their introduction into the headwaters of all our high mountain streams, where it has been demonstrated they have done well in the past, and it is but reasonable to suppose that as they become acclimated they will gradually descend the rivers and spread themselves over the whole state.

The Black bass is such a desirable fish that, as we already have them, it would be a public benefit to systematically distribute them into all the suitable waters of the State. When once planted they become permanent "settlers," no restocking is necessary, and it would be well to do this work quickly.

I would recommend the introduction of the eel, which is highly steemed in the East and in Europe; in fact, it is considered a luxury, and is preferred by many to the trout. The flesh of the eel salted, smoked, and pickled, forms quite an article of trade, and will in time afford a large addition to the food for the people.

Many have asked for the introduction of the Big-mouthed Black bas from the Southern States for planting in our warmer waters; also, the big catfish of Texas, which occasionally weighs three hundred pounds It is said that it would be very desirable for the Sacramento and San Joaquin Rivers.

A part of the fund should be expended for the scientific investigation of the economic fishes of our State, and experimenting in artificial reproduction of others fishes, among them the sturgeon, which valuable

food fish is becoming notably scarce.

For all of the foregoing, which is expensive field work, the present appropriation of \$5,000 is ridiculously insufficient, and it is needful that \$12,000 should be annually appropriated for the sole and exclusive use of this department.

Therefore, I would suggest to your honorable Board that you would petition the Legislature for an annual appropriation of \$12,000 for the

Hatcheries and Restoration of Fishes.

#### SCREENS FOR DITCHES.

Most ditches take their supply of water from the streams above the valleys, from the lower foothills to far into the high mountains.

Our mountain streams are good spawning grounds for trout and salmon.

The young trout, as soon as able to swim, leave their hidden recesses in the gravel and seek the shallow water near the bank or shore of the streams where the water is less swift. Here they are better able to stem the current, and are also comparatively safe from the raids of larger fish which live in the deeper water, and are cautious about venturing into the shallow water.

Ditches, of course, take their supply from the shores of these streams. The current at the inlet of these ditches is strong, and draws the little fellows down with the water farther and farther. The current within the ditch is so strong that they cannot get back, hardly, even if the instinct of fear impelled them to do so.

But they go with the current willingly. Mother Nature has not taught them that these side issues from their native brooks lead to their destruction, by distributing them with the water to nourish the roots of alfalfa and timothy grasses, or through the great fields of the raisin grape or wine vineyards and orange orchards; nor by being dashed over the rocks through nozzles of miners' pipes, nor by being ground up into

mince meat by the turbine wheels of sawmills and papermills.

These thousands of ditches tapping the mountain streams the whole length of our State, from Oregon to Arizona, destroy ten times more fishes, especially the trout and salmon, than is done by all other means of illegal destruction of fishes. The numbers of trout destroyed through the agency of ditches will run up into millions every year.

This great destruction of fishes is self-evident to every man who taps a trout stream for irrigating purposes, unless the process has been going on so long that the stream has already become barren of fishes.

I have already cited an instance in this report of the great destruction of trout in Siskiyou. County by a ditch from Shasta River, which was told to me by the owner of the ditch.\* I have known of what I write by observation in traveling over this State during the past twenty years.

Hundreds of men have told me the same story, and angrily denounced such wanton destruction of trout, saying that in a few years, unless there was a stop put to it, there would be but few to destroy. Those who use the waters from these ditches admit the facts. I do not believe there is a man in the State who knows anything practically about the use of ditch water but who will admit what I have stated about the great destruction of trout is substantially true. I will instance a case which happened last year not far from the hatchery at Sisson.

A lot of young salmon had been distributed in Big Spring Creek. At that time we were not aware that there was a ditch taking water from this creek, but it happened there was one whose inlet was from the opposite bank from the road, hidden from view by a thick growth of alders.

Some time after the salmon had been planted, at a considerable distance above this ditch, its owners had occasion to shut the water off. After the water had drained away they saw so many dead salmon, that word was sent to the men at the hatchery who went up to investigate, and they estimated that about seven thousand young salmon had perished. What is the use of stocking our streams with fish to have them killed off by wholesale in this manner?

It is well known that in early times all the mountain streams through the mining counties were bountifully stocked with trout, and where there are at the present time hundreds of ditches taking water from these streams for irrigating and mining purposes. All these streams have fine spawning grounds for trout for miles far above where the mining debris has been deposited, and even where it is almost impossible for an angler to go. And besides these counties are not thickly populated, and the streams cannot have been fished to excess. Yet the people in these mountain counties are asking for trout to restock their streams.

All these streams would be full of trout if it were not that they have

been destroyed by the open ditches.

To stock these streams with trout, whose waters are taken out through ditches without screens at their inlets to protect the young fish from being drawn into them and destroyed, is a waste of time and money. It is as ineffectual as it would be to try to dip up water in a sieve.

If it is of material consequence to keep our mountain streams stocked with trout and salmon, then it is imperative that a law should be passed compelling the owners of all ditches, flumes, and pipes which take their supply of water from public streams, to maintain screens across their inlets of sufficient fineness to prevent young trout from finding their way through.

In regard to the size of the mesh, it is of the utmost importance that it should keep out the young trout, and yet let through enough water

for the requirements of the ditch.

The mesh of the screen should not be larger than one fourth of an inch square.

To let in sufficient water with this size of mesh, and not require but little attention to keep off rubbish, the surface of the screen should be two or three times larger than the cross-section of the ditch.

The ditch or flume should be enlarged at its inlet or mouth by flar-

its sides to accommodate this size of screen.

A good way to put in a screen which will prevent the young fish from being drawn against the wire, as well as the floating stuff in the stream,

which would have a tendency to choke the screen, and, of course, let is less water, is to have the flaring end of the flume flush with the bank of the stream, and fitted with cleats to receive a light wooden frame.

REPORT OF STATE BOARD OF FISH COMMISSIONERS.

To this frame should be fastened an oblong square basket made the screen wire cloth. The depth of the basket should be a foot or so according to the size of the ditch. The screen being in place, the depth of the basket would thus project into the stream, and have the two ends one side, and the bottom of the basket as a screen surface.

The upper end of the basket would, of course, be more or less clogged up with floating stuff, but the under side and the lower end would be almost entirely free, while the bottom of the basket, or outer surface, which should be nearly parallel with the current of the stream, would be kept comparatively free from floating stuff by the current itself.

This basket screen, being loosely fitted between the cleats, could be easily taken out, and with a few splashes in the stream cleared of all

rubbish.

A coarse rack of slats outside of the screen would keep off any large floating substance, which might otherwise injure the basket, and with a boom fastened at the bank above the ditch, and swung diagonally part way across the stream and fastened in position, would ward off most of the floating debris.

Of course, if the main ditch at the stream has a screen, the smaller

ditches taking water from the main ditch will require none.

Galvanized wire cloth of one quarter-inch mesh, strongly made, and soldered at each intersection of the wires, can be bought in San Francisco for 6 cents per square foot.

The cheapness of the wire will make the cost of a good sized screen but a small item. And with a little of our American ingenuity in constructing it, and an ardent desire for the safety of our trout, screens can be speedily placed at the inlet of all ditches.

Accompanying this report will be found a copy of the Screen Law of Wyoming, which Fish Commissioner Louis Miller kindly sent me.

#### THE STRIPED BASS. Roccus Lineatus.

Geographical Distribution.—The Striped bass, as has already been stated, occurs in all the waters of our coast from latitude 50 degrees to latitude 30 degrees. In the North it is called the "Striped bass," in the South the "Rock-fish," or the "Rock." The neutral territory, where both these names are in use, appears to be New Jersey. The fishermen of the Delaware use the latter name; those of the seacoast the former Large, sea-going individuals are sometimes known in New England by the names, "Green-head" and "Squid-hound." There is still some uncertainty regarding the southern limits of the distribution of this species In the Saint John's River, Florida, they are very unusual. Though familiar in the fisheries of that region since 1873, I have only known of the capture of two individuals. Mr. Stearns has obtained one or two specimens in the Gulf of Mexico, and gives an account of the degree of their abundance in those waters. He writes: "They are occasionally caught on the northern shores of the Gulf, and are, evidently, more common about the mouths of the Mississippi River than elsewhere Since they are taken in this region only in seines, and in shallow water their abundance cannot be correctly determined. The earliest I have been able to obtain of the capture of Striped bass in Pensacola Bay, is

that of Captain John Washington, of Mystic, Connecticut, who states that in 1850, while seine fishing from the smack "Francis Parkes," he surrounded with his seine a large school of fish which were quite unmanageable. A few of them were saved, and proved to be large Striped bass, weighing from fifteen to forty pounds. At long intervals since, solitary individuals have been taken at various points on the coast. At New Orleans it is found in the market quite often. An eighteen-pound specimen was sold there in March, 1880."

In Hallock's "Sportsmen's Gazetteer" the following statement occurs: "It is constantly seen in rivers of fresh water at great distances from the ocean, even as far up the Mississippi as St. Louis, and it is common in White River, Arkansas, and in all the rivers of the Southern States."

While there can be no question that straggling individuals of this species have been taken in the Gulf of Mexico, it seems probable that both Mr. Stearns and Mr. Hallock have been mistaken by the resemblance of this species to the Brassy bass (Roccus interruptus), which

abounds throughout the lower Mississippi Valley.

Canadian authorities inform us that, though the bass still occur along the New Brunswick and Nova Scotia shores of the gulf, they are much less abundant and of smaller size than formerly. They have been known to ascend the St. Lawrence as far as Quebec, and Mr. Roosevelt has seen a specimen, a female fish, which was taken in the Niagara River near Lewiston. The bass is most abundant in the bays and inlets of Cape Hatteras, in the Chesapeake and Delaware Bay region; and in the protected waters of Long Island and southern New England. In winter they occur in considerable numbers in the Altamaha River, and are unusual in the markets of Charleston, South Carolina.

Habits.—The Striped bass is not migratory, being found along our coasts in winter as well as in summer, and in our markets in every month in the year. Great quantities are taken in winter in the rivers tributary to the Chesapeake, and in the rivers of New Brunswick quantities of them are speared through holes in the ice. During the past four years I have known of their capture in Long Island and Block Island Sounds, and in the Merrimac River in December, and in Martha's Vineyard Sound and in the lower part of the Hudson River in January. Though they appear to avoid a temperature higher than 65 or 70 degrees, they are not sensitive to cold, and there is good evidence that they frequently, when detained throughout the winter in shallow places, enter upon a state of torpidity.

Food.—They are very voracious feeders. Entering the rivers, they prey upon small fishes. They are particularly abundant at the time of the spring runs of the shad and herring, and at this season are particularly plump and well fed, doubtless owing to the ease with which they can obtain food. They also frequent the rocky shores of the bays and sounds at high tides, in search of crabs, shrimps, and souids; and they are said to feed upon clams and mussels, which they obtain by delving with their snouts.

Reproduction and Growth.—They spawn in the late spring and early nummer, some of them in the rivers, others probably at sea, although this has not been definitely ascertained. The European bass are said deposit their spawn near the mouth of the rivers in the summer months.

From North Carolina to New Jersey the spawning time appears to be May; in New Brunswick in June. Dr. Blanding many years ago

estimated the number of eggs at two million two hundred and forty-eight thousand. Their rate of growth is very rapid. Dr. C. C. Abbott, in five successive years, found in the Delaware River young an inch long the second week in June. About the middle of October these had grown to the length of four and a half inches.

REPORT OF STATE BOARD OF FISH COMMISSIONERS.

The young fish—five to nine inches in length—which are taken in such quantities in the Potomac in February and March, are supposed to be the young of the previous year. Captain Gavitt, of Westerly, Rhode Island, has caught bass in June that weighed from one half to one pound put them in a pond, and taken them out in the following October, when they weighed six pounds. The average size of this fish probably does not exceed twenty pounds. In the Potomac, Hudson, and Connecticut Rivers the largest seldom exceed thirty or forty pounds, though in the Potomac fifty-pound fish are not unusual. The Fish Commission has for several years had a standing offer of a reward for a sixty-pound fish from the Potomac, but none has been forthcoming as yet. The largest Striped bass on record was one weighing one hundred and twelve pounds, taken at Orleans, Massachusetts, in the town cove. Such a fish would be at least six feet in length. A fairly proportioned bass thirty-six inches long would weigh at least eighteen pounds.

Uses.—The Striped bass is one of the most valuable of our food fishes. its flesh being firm, finely flavored, and hard enough to bear exposure to the air for some time without injury. It is also the most popular game fish, next to the salmon. Those in the markets are chiefly obtained in seines and traps, set at various points along the coast from the south side of Cape Cod to New Jersey. Great quantities are also taken in the shad seines in the spring. They may be readily taken, also, by heaving and hauling in the surf with menhaden bait, the fish being tolled by the use of great quantities of menhaden ground into small bits, and in fresh or brackish water by the use of the artificial fly. At various points on the coast of southern New England are clubhouses, supported by wealthy amateurs for the purpose of carrying on these sports.

It has already been stated that the Striped bass are believed to be less abundant in the Gulf of St. Lawrence than in former years Similar complaints are heard from the Bay of Fundy, and from Cape Cod, where the period of diminution is believed to date from the last advent of the Bluefish: about 1850. The bass fishery, in Cape Cod Bay, was formerly of great importance, but the capture of this fish is now of rare occurrence. The early settlers of New England seem to have been more impressed by the abundance of bass than by any other circumstances connected with the fisheries, and the early chronicles are full of allusions to their exceeding plenty and excellence.

Captain John Smith saw so many in one river, that he declared that he thought he might have walked across on their backs dryshod. While there can be no doubt that north of Cape Cod their numbers have decreased, there is no reason to believe that elsewhere on our coast the fisheries have had any especial effect upon them. A Hessian officer writing in 1777, declared that enormous numbers were, at that time brought to New York; and the same might be said at the present day Three fishing gangs at Bridgehampton, New York, took over eight thousand in less than a week, in December, 1874. Captain Charles Ludlow secured at one set of his seine one thousand six hundred and seventy-two bass, or about three and a half tons. Shortly afterwards

New London fisherman brought in four hundred and nineteen bass, one hundred and eighty-five of which had been caught with a hook in three hours, near Norfolk, Virginia. One thousand five hundred have been taken with a single set of the seine. A few years ago, it is said on credible authority that six hundred were once taken, the average weight of each being eighty pounds.

#### DISTRIBUTION OF FISH BY THE CALIFORNIA STATE FISH COMMISSION.

#### DISTRIBUTION OF TAHOE TROUT.

Distributed in September and October, 1888.

Localities and Remarks.	Number of Fish.
Squaw Creek Lake Tahoe, at various points Donner Lake Dinkley and Buena Vista Creeks, Fresno County South Fork of American River Taylor Creek Truckee River South Yuba River Shafer's Creek Richardson's Creek Barker's Creek and Lake Gilmore's Lake Watson's Lake	30,000 20,000 25,000 105,000 35,000 7,000 5,000 1,500
Total Tahoe trout (as reported by Mr. J. C. Frazier, October 27, 1888)	601,000

#### DISTRIBUTION OF SALMON.

DATE	Where Distributed and Remarks.	Number of Fish.
1888. Dec. —	McCloud River, from the United States Hatchery, by contract with Mr. Livingston Stone, at 75 cents per thousand	500,000

#### From Sisson Hatchery, for the Season of 1888-89.

#### Early Fall Run.

DATE.	. Where Distributed and Remarks.	
1888. dec. 23 dec. 24 dec. 25 dec. 26 dec. 27 dec. 28 dec. 29 dec. 30 dec. 31	Below Eighteenth Crossing, main Sacramento River.  Above Eighteenth Crossing, main Sacramento River.  Above Sullivan's, West Fork Sacramento River.  Near Stevens', West Fork Sacramento River.  West Fork Sacramento River.  Big Springs Creek, tributary Sacramento River.  Sulloway Creek, tributary Sacramento River.  Cold Creek, tributary Sacramento River.  Near Big Castle Creek, main Sacramento River.  Total	50,000 100,000 100,000 100,000 100,000 80,000 50,000

#### Late Fall Run.

DATE.	Where Distributed and Remarks.	Number of Fish.
1889.  Mar. 25  Mar. 26  Mar. 27  Mar. 27  Mar. 28  Mar. 30  April 3  April 4  April 6  April 6  April 9  April 10  April 10  April 11	West Fork Sacramento River. West Fork Sacramento River. School House Spring Creek, tributary Sacramento River. School House Spring Creek, tributary Sacramento River. Big Spring and Sullivan Creeks, tributary Sacramento River. Sulloway and Cold Creeks, tributary Sacramento River. West Fork Sacramento River. West Fork Sacramento River. West Fork Sacramento River. Near Upper Soda Springs, main Sacramento River. Near Mossbrae Falls, main Sacramento River. Near Mossbrae Falls, main Sacramento River. Near Mossbrae Falls, main Sacramento River. Near Lower Soda Springs, main Sacramento River. Near Lower Soda Springs, main Sacramento River. Near Little Castle Creek, main Sacramento River. Near Anderson's Mill, main Sacramento River.	156,0 144,0 144,0 144,0 104,0 144,0 144,0 90,0 90,0 90,0 90,00 90,00 90,00
April 15 April 16 April 17	Three miles below Anderson's Mill, main Sacramento River	90,00 90,00 90,00 72,00 60,00
-	Total	2,168,000

#### DISTRIBUTION OF TAHOE TROUT.

#### From Tahoe Hatchery, 1889.

DATE.	Applicant.	Where Distributed.	Number of Fish.
1889. Aug. 18. Aug. 24. Aug. 26. Aug. 27. Aug. 28. Aug. 29. Sept. 3. Sept. 3. Sept. 5. Sept. 6. Sept. 6. Sept. 10. Sept. 13. Sept. 14. Sept. 14. Sept. 14. Sept. 20. Sept. 20. Sept. 20. Sept. 20. Sept. 24. Sept. 27. Sept. 29. Oct. 5.	Murphy Bros. O. Roberts O. Roberts McKinney McKinney McKinney M. Lawrence Mrs. Vade Clark Mrs. Kirby M. Lawrence A. J. Bayley M. Gilmore Mr. Wentworth A. L. Frost A. J. Bayley	Blackwook Creek, tributary of Lake Tahoe Sea Gull Point, Lake Tahoe Near Saxon's Old Mill, Lake Tahoe At wharf, Tahoe City Off Island Ranch, Lake Tahoe Meeks' Bay and Creek, Lake Tahoe Meeks' Bay and Creek, Lake Tahoe Meeks' Bay, Lake Tahoe Meeks' Bay, Lake Tahoe Meeks' Bay, Lake Tahoe Phipp's Creek, tributary of Lake Tahoe Lake Tahoe, near Sugar Pine Point Quail Creek, tributary of Lake Tahoe In Lake Tahoe, near the snag Taylor Creek, tributary of Lake Tahoe Fallen Leaf Lake, tributary of Lake Tahoe Fallen Creek, tributary of Lake Tahoe Fallen Creek, tributary of Lake Tahoe Taylor Creek and Floating Island Lake Burton Creek, tributary of Lake Tahoe Taylor Creek and Floating Island Lake Burton Creek, tributary of Lake Tahoe Gilmore Springs, seven miles from Yank's Loon Lake and Buck Island Lake, headwaters Middle Fork American River Near Rubicon Point, Lake Tahoe	Fish.  60,000 35,000 35,000 30,000 40,000 60,000 60,000 60,000 60,000 100,000 50,000 60,000 60,000 25,000 65,000 65,000 65,000 65,000 65,000 65,000 65,000 65,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000 66,000
Oct. 5	Com. Todman	Total	1,027,000

#### DISTRIBUTION OF SALMON.

From Sisson Hatchery for the Season of 1889 and 1890.

#### Early Fall Run.

DATE.	Where Distributed and Remarks.	Number of Fish.
1890. Feb. 3 Feb. 4 Feb. 5 Feb. 6 Feb. 7 Feb. 8 Feb. 10 Feb. 12	Sulloway Creek, tributary of Sacramento River Big Spring Creek, tributary of Sacramento River School House Spring Creek, tributary of Sacramento River Sulloway Creek, tributary of Sacramento River	100,000 100,000 140,000 180,000

#### Late Fall Run.

DATE.	Where Distributed and Remarks.	Number of Fish.
1890. April 23 April 25 April 26 April 28 April 30	West Fork Sacramento River West Fork Sacramento River Upper Soda Springs, main Sacramento River Near Dunsmuir, main Sacramento River Near Eighteenth Crossing, main Sacramento River Total	80,000 75,000 75,000 75,000 45,000

#### DISTRIBUTION OF EASTERN BROOK TROUT.

DATE.	DATE. Localities and Remarks.	
1890.		
June 6 June 8 June 9 June 9 June 8	Deer Creek, east of Vina, Tehama County, California, for Senator Stanford Headwaters McCloud River, Siskiyou County. Shovel Creek, branch of Klamath River, for A. C. Tubbs, Siskiyou County Big Springs, branch of Shasta River, Siskiyou County. Griffen's Springs, branch of Shasta River, Siskiyou County. Wadsworth Springs, branch of Shasta River, Siskiyou County. School House Springs, branch of Sacramento River, Siskiyou	12,000 24,000 4,000 8,000 2,000 1,000
June 19.	County  Headwaters of Shasta River, branch of Klamath River, Siskiyou County	2,000 8,000
June 25.	County Kaiser's Springs, headwaters of Sacramento River, Siskiyou County West Fork of Sacramento River, Siskiyou County	6,000 16,000
	Total Eastern Brook trout	83,000

#### DISTRIBUTION OF TAHOE TROUT.

#### FROM TAHOE HATCHERY.

DATE.	Applicant.	Where Distributed.	Number of Fish.
1890.			
July 28 July 29 July 31 Aug. 2 Aug. 4 Aug. 6 Aug. 8 Aug. 11 Aug. 12 Aug. 12 Aug. 21 Aug. 22 Aug. 23 Aug. 25 Aug. 26 Aug. 26 Aug. 27 Sept. 14 Sept. 17	M. Lawrence M. Lawrence M. Lawrence M. Lawrence M. Lawrence M. S. Kirby A. L. Frost Mrs. Vade Clark  O. Roberts J. McKinney J. McKinney Mr. Gilmore J. McKinney M. Lawrence Com. Todman J. Moody J. Moody J. Moody Mr. Scott Mr. Scott H. D. Burton	Truckee River, above Ward Rush Dam (Rainbow trout).  Taylor Creek, tributary of Lake Tahoe. Fallen Leaf Lake Taylor Creek and Cascade Lake. Emerald Bay, Lake Tahoe Near Rubicon Point, Lake Tahoe. Rubicon River, branch of Middle Fork of American River Meeks' Creek, tributary of Lake Tahoe. Phipps' Creek, tributary of Lake Tahoe. Quail Creek, tributary of Lake Tahoe. McKinney's Creek, tributary of Lake Tahoe. Gilmore Springs, seven miles from Yank's (several small lakes). Blackwood Creek, tributary of Lake Tahoe. Loon Lake (15,000), Summit Lake (5,000), Quail Lake (5,000). South Fork American River, fourteen miles from Tallac Truckee River, above Ward Rush Dam (Rainbow trout). Donner Lake Headwaters Alder Creek, near Truckee. Squaw Creek, tributary of Truckee River. Squaw Creek, tributary of Truckee River. Carnelian Bay, Lake Tahoe. Burton Creek, tributary of Lake Tahoe.	55,00 60,00 55,00 55,00 56,00 56,00 35,00 35,00 35,00 38,00 8,00 10,00 20,00
		Total Tahoe trout	873,00

#### DISTRIBUTION OF BLACK BASS.

DATE.	Applicant.	Locality and Remarks.	Number of Fish.
1889.			
Aug. 12	Senator Jones	Thermalito Reservoir, at Oroville, Butte	60
	J. D. Jordan J. D. Jordan	Clear Lake, Lake County, Cal	160 160
Aug. 31	W. G. Dickinson		
	Pacific Imp't Co	In lake at Del Monte, Monterey County, Cal.	40
	Pacific Imp't Co	Cal	60.
Aug. 29	J. D. Jordan	Blue Lakes, Lake County, Cal.	69 88
[		Sargent's Station, Pajaro River, Santa Clara County, Cal.	40
ľ	McD. R. Venable	City Reservoir, San Luis Obispo, San Luis Obispo County, Cal.	10
Oct. 6	McD. R. Venable	Laguna de San Luis, two miles west of San Luis Obispo City, San Luis Obispo County	50
		Total Black bass	857

### DISTRIBUTION OF RAINBOW TROUT.

#### From Sisson Hatchery.

DATE.	Name of Applicant.	Localities where Planted.	Number of Fish Shipped.
1890.			
July 15.	Chas. Sonntag	Lagunitas Lake, Marin County	12,000
Inly 15		Lagunitas Creek, Marin Co., 5 miles below dam	8,000
Inly 20	.  S. V. W. Works Co	San Mateo Ck., above reservoir, San Mateo Co.	40,000
July 23.	J. B. Randol	Almanitos Creek, near New Almaden Mines,	10 000
T-1- 92	J. B. Randol	Santa Clara County	18,000 12,000
July 23 July 26	A. W. Ingalsbe	Smith's Creek, a branch of Calaveras Creek,	12,000
July		Santa Clara County	12,000
July 26	$\mathbf{A} \cdot \mathbf{W} \cdot \mathbf{Ingalsbe}$	Santa Clara County Stevens' Creek, Santa Clara County	9,000
July 26	A. W. Ingalsbe	Saratoga Creek, Santa Clara County	9,000
July 30	Mr. Mendenhall Chas. Hadsell	Alameda and Calayeras Creeks, Alameda Co	18,000 12,000
July 30 Aug. 3		Alameda and Calaveras Creeks, Alameda Co. A branch of the Salinas River, Monterey Co.	12,000
Aug. 3	Chas. Romie	Arrovo Seco. branch of Salinas River. Mon-	-2,000
22-67	1	terey County Stevens' Creek, Santa Clara County Adoba Creek, Santa Clara County	18,000
Aug. 11	John T. Doyle John T. Doyle	Stevens' Creek, Santa Clara County	18,000
Aug. 11	John T. Doyle	Auobe Oreek, Santa Olara County	12,000
Aug. 15	George Dennison	Boulder Creek, branch of San Lorenzo Creek, Santa Clara County	18,000
Aug. 15	George Dennison	Bear Creek, branch of San Lorenzo Creek,	10,000
		Santa Clara County	12,000
Aug. 19 Aug. 23	F. Marriott	Santa Clara County Los Gatos Creek, Santa Clara County	30,000
Aug. 23	J. G. Chesley	San Gregorio Creek, San Mateo Co. (4 lost)	30,000
Aug. 31 Sept. 3	Dr. C. O. Dean A. C. Bassett A. W. Stott	Paper Mill Creek, Marin County	30,000 30,000
Sept. 7.	A. W. Stott	In branches of Uvas Creek, Santa Clara Co Sonoma Creek, Sonoma County	18,000
Sept. 7	T. Lake Harris	i A branch of Kussian River near Santa Rosa i	20,000
		Sonoma County.  At Chili Bar, South Fork American River, El Dorado County  At Moore's Bridge, South Fork American River, El Dorado County  New Pornis Lobroco's South Fork American	12,000
Sept. 11	Dr. H. W. Smith	At Chili Bar, South Fork American River,	10.000
Sont 11	De II W Smith	El Dorado County	12,000
Sept. 11	Dr. H. W. Smith	River El Dorodo County	3,000
Sept. 11.	Dr. H. W. Smith		0,000
	i	River, El Dorado County	6,000
8ept. 11	Dr. H. W. Smith	Two Silver Creeks, branches of South Fork	
Sont 10	C E II11	American River, El Dorado County	9,000
Sept. 18	C. F. Haswell F. L. Wooster	In bronches of Name Creek, near Name Co.	30,000 30,000
July and	Edson Bros.	In branches of Napa Creek, near Napa, Napa Co. Shovel Creek, branch of Klamath River, Sis-	00,000
Aug.		kiyou County	130,000
Aug. 25		West Fork Sacramento River, Siskiyou Co	25,000
Aug. 25		Sulloway Creek, branch of Sacramento River,	•
Aug. 25		Siskiyou County Cold Creek, branch of Sacramento River, Sis-	25,000
		kivon County	15,000
Aug. 28		kiyou County School House Creek, branch of Sacramento	20,000
ř.		River, Siskiyou County In three creeks at Peter Klink's, branches of	50,000
Aug. 28		In three creeks at Peter Klink's, branches of	FA 600
ept. 28		Sacramento River, Sisklyou County	50,000
EVCL 1		West Fork Sacramento River, Siskiyou Co	50,000 50,000
Oct. 2		Near Dunsmuir, main Sacramento River Near Mossbra Falls, main Sacramento River,	20,000
Ans -		Siskiyou County	41,000
Oct. 3		Siskiyou County  Near Little Castle Creek, main Sacramento	
0ct. 6	McD. R. Venable.	River, Siskiyou County San Margarita Creek, branch of Salinas River,	40,000
252	M. I. venable.	San Luis Obisno County	8,000
Oct. 6.	McD, R. Venable	San Luis Obispo County San Luis Creek, San Luis Obispo County	8,000
Oct. 6.	McD. R. Venable McD. R. Venable	Chorro Creek, empties into Morro Bay, San!	•
Oct. 6	16.D D 77 11	Luis Obispo County	8,000
6	McD. R. Venable	Laguna de San Luis, near San Luis Obispo	10.000
et 6	McD. R. Venable	City, San Luis Obispo CountySteiner and Venable Creeks, branches of San	10,000
A.		Luis Creek, San Luis Obispo County	3,000
6	McD. R. Venable	Arroyo Grande, San Luis Obispo County	3,000
			<del></del>
	1	Total Rainbow trout	996,000
	18	<del></del>	

# DISTRIBUTION OF SALMON BY THE UNITED STATES FISH COMMISSION FROM McCLOUD RIVER HATCHERY.

DATE.	. Localities.	Number of Fish,
1888. Nov.,Dec. 1889.	McCloud River	1,000,00
Nov.,Dec.	McCloud River	84,000
	Total salmon	1,084,00

		DISTRIBUTION OF TROUT BY PRIVATE HATCHERIES IN 1890
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KIND OF FISH.	Owner of Hatchery.	Place Planted.	Вепаткя.	Number of Fish.
Native trout	North Pac. Game			
Rainbow trout	North Pac. Game	Sonoma Creek	From eggs taken from trout trapped in Sonoma Creek by permission of the California State Fish Commission	12,000
Eastern Brook trout	Z	Robinson Creek	From eggs shipped from the Shovel Creek Hatchery by the California State Fish Commission	90,000
Native trout	Alex. Badlam	Robinson Creek	(As reported by Mr. A. V. La Motte of the North Pacific Game and Fish Club).  From trout trapped in Bear Greek, Napa County, by permission of the	25,000
Rainbow trout	Alex. Badlam	Sulphur Creek	California State Fish Commission From eggs shipped from the Shovel Creek Hatchery by the California	15,000
Rainbow trout	Alex. Badlam	Lokonoma Creek	State Fish Commission Near Middletown, Lake County, California Near Middletown Lake County California	888 888
Rainbow trout	Alex. Badlam	1 1	Near Bradford's, Lake County, California Near Quicksilver Mine, Lake County, California	
Rainbow trout Rainbow trout	Alex, Badlam	Bear Creek Troutdale Creek Bear Creek branch	Near Arcadia, Napa County, California Near Arcadia, Napa County, California (as reported by Mr. A. Badlam) -	
Rainbow trout	S. H. Knowles	S. Lorenzo Creek In his private	From eggs shipped from Shovel Creek Hatchery by California State Fish Commission	15,000
Rainbow trout	S. H. Knowles	ponds Log Gatos Creek,	From eggs shipped from Shovel Creek Hatchery by California State Fish Commission	15,000
Rainbow trout	Del Monte Hotel	Santa Clara Co Carmel River and reservoirs	From eggs shipped from Shovel Creek Hatchery by California State From eggs shipped from Shovel Creek Hatchery by California State	10,000
			Fish Commission	40,000
			Total trout.	322,000

#### RECAPITULATION.

Salmon distributed by California Fish Commissioners	4,478.00
Salmon distributed by California Fish Commissioners Salmon distributed by United States Fish Commissioners Eastern Brook trout distributed by California Fish Commissioners	1,084,00
Eastern Brook trout distributed by California Fish Commissioners	83,00
Tahoe trout distributed by California Fish Commissioners	2,501,00
Rainbow trout distributed by California Fish Commissioners	998,00
Black bass distributed by California Fish Commissioners	85
Tahoe trout distributed by California Fish Commissioners Rainbow trout distributed by California Fish Commissioners Black bass distributed by California Fish Commissioners Rainbow trout distributed by private hatcheries	322,00
·	
Total	9,464,85
Salmon ages in Sisson Hatchery October 15, 1800	3 000 6

# THE FOOD FISHES OF THE CALIFORNIA FRESH WATERS.

By Dr. CARL H. EIGENMANN.

The knowledge of the fresh-water fishes of California is at present more limited than that of any other State. It is, therefore, no easy task to present an account of the food fishes which shall at the same time be popular, or free from the technicalities of the ichthyologist, and scientifically exact. My personal observations have been confined to the southern and central counties of California, my explorations having been rather prematurely arrested. I hope, however, either this or the coming year to thoroughly explore every stream and lake in the State, and present you with a fuller report.

There is comparatively a very limited variety of fishes in California. A stream which, in the Mississippi Valley, would harbor seventy-five or a hundred different species of fish, would, in California, scarcely contain twenty. This is due to two causes.

#### CAUSES OF FISH SCARCITY.

I. Many of our streams become entirely dry during the summer, and no species that does not migrate to the sea or the lower or higher water-courses, can exist in them.

II. It is a law in the distribution of fresh-water fishes that the greater the water system the larger the number of species of fishes found in any of the tributaries. The tributaries of the Sacramento thus have much fewer species than the tributaries of the Mississippi, and the tributaries of the Mississippi much fewer than the tributaries of the Amazon. To be more precise, one naturalist has caught as many species of fishes in one of the tributaries of the Mississippi in a day as there are known from the entire region west of the Sierra Nevada.

#### NAMES OF FISHES.

I present a list of the fresh-water fishes now known from California, giving both the scientific and popular name:

Ammocætes tridentatus Gairdner. Lamprey.
Ammocætes cibarius Girard. Lead-colored Lamprey.
Atipenser transmontanus Richardson. White Sturgeon.
Atipenser medirostris Ayers. Green Sturgeon.
Cutostomus arzopus Jordan. Kern River Sucker.
Cutostomus rez R. Eigenmann. Klamath Sucker.
Cutostomus secidentalis Ayers. Sacramento Sucker.
Cutostomus tahoensis Gill and Jordan. Tahoe Sucker.
Chasmistes brevirostris Cope.
Chasmistes huxatus Cope.
Othodon microlepidotus Ayers.
Luvinia exilicauda Baird and Girard.
Pygnichthys macrolepidotus Ayers.
Mylopharodon conocephalus Baird and Girard.
Pychocheilus caurinus Richardson.
Mylopharodon conocephalus Baird and Girard.
Pychocheilus oregonensis Richardson. Sacramento Pike.

Ptychocheilus rapax Girard. Ptychocheilus harfordi Jordan and Gilbert. Sacramento Pike. Phoxinus montanus Cope. Phoxinus orcuttii E. and E. Phoxinus conformis Girard. Phoxinus bicolor Girard. Phoxinus obesus Girard. Phoxinus crassicauda Baird and Girard. Phoxinus crassus Girard. Phoxinus cœruleus Girard. Algansea dimidiata Cope. Chub. Algansea symmetrica Baird and Girard. Algansea bicolor Girard. Luxilinus occidentalis Baird and Girard. Coregonus williamsoni Girard. Whitefish. Oncorhynchus gorbuscha Walbaum. Humpback Salmon. Oncorhynchus keta Walbaum. Dog Salmon. Oncorhynchus tchawytcha Walbaum. Quinnat Salmon, Oncorhynchus kisutch Walbaum. Silver Salmon. Salmo gairdneri Richardson. Steel-head Salmon. Salmo gairdneri irideus Ayers. Brook Trout. Salmo purpuratus Pallas. Oregon Brook Trout. Salmo purpuratus henshawi Gill and Jordan. Tahoe Trout. Salvelinus malma Walbaum. Dolly Varden. Gasterosteus williamsoni Girard. Stickleback. Gasterosteus microcephalus Girard. Stickleback. Archoplites interruptus Girard. Sacramento Perch. Cottus asper Richardson. Cottus semiscabrus centropleurus E. and E. Cottus gulosus Girard. Cottus minutus Pallas. "Catfish."

By saying that the number of species of fresh-water fishes is limited, I do not wish to imply that the food fishes are less in number or inferior in quality, but merely that we have less variety, a defect which can be remedied by introducing other species.

#### DESIRABLE SPECIES TO IMPORT.

The most prominent food fishes of the Mississippi Valley which are not indigenous to California, are the various catfishes, the buffalo, the pickerels, most of the sunfishes, especially the Black bass, the perches and the bass. Several of these have already been introduced.

In the southern part of the State, where all but the mountain sources of the rivers dry up during the summer, we naturally have but few freely water fishes, and any attempts to stock these rivers are, of course, futile. There are but four different species of fishes in the fresh waters of Sar Diego County, exclusive of the Colorado River. One is a small killifish living in the hot springs of the Colorado Desert, another a small stickle back, a third a small minnow, while the only eatable fish is the Salmw irideus, which occurs, as far as known, only in Pala Creek. There is scarcely more variety till we reach the Tulare Basin. Salmo irideus, or the Brook trout, is the only food fish south of the Tulare Basin, and it never reaches a large size there. A few species of marine fishes run up the Southern California streams during spring. Chief of these is the mullet When the dams of the Sweetwater reservoirs were opened, to clear part of the land of the water, large numbers of Sea bass ascended the stream thus formed. With these remarks Southern California may be dismissed.

The remainder of California may be divided into the Tulare, Sacramento, Klamath, and Tahoe regions, each of which has a different set of food fish. They are:

Tulare Region.	Sacramento Region.	Klamath Region.	Tahoe Region.
(ern River sucker.	White sturgeon. Green sturgeon. Sacramento sucker. Salmon. Brook trout. Salmon trout.	White sturgeon. Green sturgeon. Three species of suckers. Salmo purpuratus. Salmon trout. Dolly Varden.	Tahoe sucker. Tahoe trout. Whitefish. Chub.

There are besides these a number which are found in several of these systems. The trouts and suckers are, however, different for each system. Taking up the different species used for food separately:

#### ACIPENSERIDÆ, OR STURGEON.

The sturgeons are among the largest of the fresh-water fishes. Like the salmon they spend some of their time in the bays and ocean, and ascend the streams to spawn. There are two species found on the Pacific Slope, to which they are confined, those in the eastern rivers being quite distinct.

#### Acipenser transmontanus Richardson. White Sturgeon.

This sturgeon is said to reach a weight of six hundred pounds. It is almost daily brought into the San Francisco markets. Those offered for sale vary from two to seven feet in length. It is said to reach a length of twelve feet. It is sold in the restaurants as "tenderloin of sole." Large numbers enter all of the large streams from the Sacramento to the Frazier River.

# Acipenser medirostris Ayres. Green Sturgeon.

This species is much rarer than the White sturgeon, but is not infrequently brought into the markets. It reaches as large a size as the preceding. The young of these two sturgeons differ greatly from the adult, and the young of the two species are not distinguished in the fish stalls. Dr. Jordan said ten years ago, that this sturgeon was reputed poisonous and not used for food. Although it is still looked upon with less favor than the White, or the sturgeon, it is no longer considered poisonous. This property is now ascribed to the young of this or of both species. The old can readily be distinguished from the White sturgeon by its rough skin and by the green band along the belly.

#### CATOSTOMIDÆ, OR SUCKERS.

The sucker is almost entirely a North American product; of the many species only two are found elsewhere. The suckers found in California are all species peculiar to the western slopes of America. The Buffalo fishes, which belong to this family, are not found on the Pacific Slope. All the species are more or less valuable as food. The California suckers all belong to the genera Catastomus and Chasmistes, and each river system has one or more which is peculiar to it. The majority ascend small streams in spring to spawn.

REPORT OF STATE BOARD OF FISH COMMISSIONERS. Catastomus arxopus Jordan. Kern River Sucker.

This is a small sucker, about thirteen inches long. Very little known about it as yet.

#### Catostomus rex R. Eigenmann.

This sucker, reaching a length of three feet, is abundant in Tule Lake and ascends the Lost River.

A specimen has lately been procured for the Academy of Sciences, through the kindness of Mr. Woodbury, of the Fish Commission.

#### Catostomus occidentalis Avers.

This is the common Sacramento sucker, or "the sucker" of the San' Francisco market. It is abundant in the whole Sacramento Valley, and descends some distance into tide water. I have taken it at Mare Island It is not greatly esteemed as food.

Catostomus tahoensis Gill and Jordan. Tahoe Sucker; Red-sided Sucker; Black Sucker.

This sucker is found in the Truckee Basin. It ascends the rivers and rivulets tributary to Lakes Tahoe and Donner in June to deposit its spawn. The very young of this species are quite black; the half grown have a bright red stripe along the sides. In the early part of June these half grown ascend the small rivulets in such abundance that the Indians and others catch large quantities by placing a sack across one of the streams and then driving them down. The larger ones have the red lateral stripe less conspicuous than the half grown. They ascend the rivers at the time the young ones ascend the rivulets. In June none were seen in Lake Tahoe, and but few were being taken in Donner Lake. A few were taken in the Fish Commission's traps in June, and great quantities were seen in Donner Creek, especially in all deep holes.

### Chasmistes brevirostris Cope.

This is a small sucker, reaching the length of sixteen inches. It is abundant in Klamath Lake, but does not ascend Williamson's River in spring.

#### Chasmistes luxatus Cope.

This sucker is also found in Klamath Lake, but reaches a much larger size, nearly three feet. "It ascends the streams in thousands in the spring, and is taken and dried in great numbers by the Klamath and Modoc Indians."

#### CYPRINIDÆ. The Carps or Minnows.

The American members of this family are mostly small, bony fishes, not fit for food. In the waters of the western slopes some of them attain a large size, however, the Sacramento pike reaching a length of five feet. They are usually very abundant where they are found at all and form an important item of the food of larger fishes. The most important member of the family is the German carp, a native of Central Asia, which has been copiously introduced into Europe and America. A large number of the species found in California are more or less valued as food, and are at times brought to the San Francisco markets.

### Orthodon microlepidotus Ayres.

This is a small species, reaching a length of fourteen inches. It is abundant in the Sacramento, and is occasionally found in the San Francisco markets.

Lavinia exilicanda Baird and Girard.

This species resembles the preceding in size and distribution.

Pogonichthys macrolepidotus Ayres. Split-tail.

This is one of the commonest of the minnows. It is at once recognized by its widely forked tail.

Mylophardon conocephalus Baird and Girard.

This is one of the largest of the Cyprinidæ. It is said to reach a length of eighteen inches. It is rarely brought to the San Francisco market.

Ptychocheilus oregonensis Rich., and harfordi J. and G. Sacramento Pike: Whitefish.

There are two varieties of pike brought to the markets, but they are not distinguished by the fishermen. They are called pike from their resemblance to the true pike, from which they are, however, quite distinct, and to which they are not at all related. P. oregonensis is said to reach a length of five feet.

### Salmons, Trouts, and Whitefish.

The Salmonidæ embrace the most important of our fish, both as regards food and sport. The genera which in California are of greatest value are Coregonus, Oncorhynchus, Salmo, and Salvelinus. They can readily be distinguished from our other fresh-water species by the adipose fin, and by the presence of scales. The genera found in California may be distinguished by the following characters:

- a. Jaws toothless; scales rather large; habitually living in fresh water .... aa, Jaws with distinct teeth.
- b. Anal fin elongate; fonrteen to seventeen rays, the tip of the highest ray rarely extending beyond the base of the last \_\_\_\_\_\_\_Oncorhynchus, or salmon.

  bb. Anal fin shorter; of nine to eleven developed rays.
- c. Vomer flat; its toothed surface plane; teeth on its shaft in pairs, or in a zigzag row; tip of the highest anal ray usually extending beyond the tip of the last ray Salmo, or trouts.

  C. Vomer boat-shaped; its shaft strongly depressed; teeth on chevron only...

Salvelinus, or Charrs, or Brook trouts.

Unfortunately there is a confusion of names due to localities and wiation in the species of this family which is frequently misleading. this is to be added that very little is known as yet concerning the Milifornia trouts, so that many writers, basing their remarks on a few ekled specimens, have increased the confusion rather than helped us.

To this must also be added that the excellent figures accompanying many of the reports, and which pretend to give the differences, are based on specimens which differed widely in size, and are therefore mislead ing. This last fact has undoubtedly much to do with the confusion existing in regard to the Steel-head trout and Brook trout.

The discussions whether a given fish may be a trout or Salmon trout while edifying to the man talking or writing, does not help us in the

least to clear this matter.

In this connection it may be worth our while to examine the remarks of Dr. Günther on the variability of the species of the genus Salmo, remarks which Dr. Jordan had occasion to quote when studying these same fishes:

There is no other group of fishes which offers so many difficulties to the ichthyologist, with regard to the distinction of species, as well as to certain points in their life history,

The almost infinite variations of these fishes are dependent on age, sex, and sexual development, food, and the properties of the water. \* \* \* The coloration is, first of all, subject to variation, and consequently this character but rarely assists in distinguishing subject to variation, and consequently this character but rarely assists in distinguishing a species, there being not one which would show in all stages of development the same kind of coloration. The young of all the species of this genus are barred, and this is so constantly the case that it may be used as a generic, or even as a family character, not being peculiar to Salmo alone, but also to Thymallus, and probably to Coregonus. The number of bars is not quite constant, but the migratory trout have two (and even three) more than the river trout. When the salmons have passed the "parr" state, the color ation becomes much diversified. The males, especially during and immediately after the spawning time, are more intensely colored and variegated than the females, specimens which have not attained to maturity retaining a brighter silvery color, and being more similar to the female fish. Food appears to have less influence on the coloration of the outer parts than on that of the flesh; thus, the more variegated specimens are frequently out of condition, whilst well fed individuals, with pinkish flesh, are of a more uniform, though bright coloration. Chemistry has not supplied us yet with an analysis of the substance which gives the pink color to the flesh of many salmonoids; but there is of the substance which gives the pink color to the flesh of many salmonoids; but there is little doubt that it is identical with, and produced by, the red pigments of many salt and fresh-water crustaceans which form a favorite food for these fishes. The water has a marked influence on the colors. Trout with intense occlusted spots are generally found in clear, rapid rivers, and in small, open, alpine pools; in the large lakes, with pebbly bottom, the fish are bright-silvery, and the occlusted spots are mixed with, or replaced by. X-shaped black spots; in pools or parts of lakes, with muddy or peaty bottom, the trout are of a darker color generally, and when inclosed in caves or holes they may assume an almost uniform blackish coloration. The brackish, or salt water, has the effect of giving them a bright-silvery coat, without or with comparatively few spots, none of which are ocellated.

With regard to size the various species do not present an equal amount of variation. Size appears to depend on the abundance of food, and the extent of water. Thus, the salmon and the different kinds of Great Lake trout do not appear to vary considerably in size, because they find the same conditions in all the localities inhabited by them

The proportions of the various parts of the body to one another vary exceedingly in one and the same species. \* \* \* The fins vary to a certain degree. \* \* \* Finally, to complete our enumeration of these variable characters, we must mention

that in old males, during and after the spawning season, the skin on the back becomes thickened and spongy so that the scales are quite invisible, being imbedded in the skin.

# Coregonus williamsoni Girard. Whitefish.

This fish is abundant in Lake Tahoe. It spawns in October and November in the tributaries of the lake. During the remainder of the season the adult is probably found in deep water. In June, schools individuals, nine inches long, were seen on the eastern shores of the lake In the evening when swarms of gnats were blown into the lake these Whitefish rose to them. A few were caught at the time with small hook baited with fly. It reaches a length of nearly fifteen inches, and weight about a pound. It ranks high as a food fish. Mr. Henshaw says of it

At Lake Tahoe it was found very abundant in October, being met with at the season in all the few streams that rise from the lake. \* \* \* This month, and later,

their spawning season, and as they pass up many are intercepted by the Indians, who find a market for considerable numbers in the settlements and logging camps about the a market for considerable numbers in the settlements and logging camps about the lake. Having constructed a suitable net of mosquito netting, which is affixed to a long pole, the Indian, accompanied by one or two squaws, proceeds to the stream where it is sufficiently narrow for his purpose. Placing the net at the head of one of the deep sandy-bottomed pools which are found at every turn of the stream, he awaits quietly till all the fish near by have been frightened into it by the squaws, who advance from below, and heat the water with sticks. With a guiden saces he usually consider the real tables. and beat the water with sticks. With a sudden scoop he usually empties the pool, taking perhaps from six to a dozen fish from each. All that we saw caught in this manner were quite small, averaging perhaps ten inches in length, but they attain a much larger size.

#### ONCORHYNCHUS. Pacific Salmon.

The members of the genus Oncorhynchus are confined to the North Pacific and the rivers flowing into it. They are generally termed salmon without distinguishing them from one another, or from the salmon of New England and Europe. They are by far the most important food fishes, and the Quinnat salmon probably surpasses in value all of our other fresh-water fishes combined.

Four of the five species known are found in the Sacramento; one of

these is, however, only occasionally taken.

All of these species live in the sea, and ascend the rivers only at the spawning season. The Quinnat salmon enter the Sacramento in the spring and summer, and the run ceases, according to Jordan, in October. The larger individuals enter the river first, and the smaller ones, two feet long, do not run till July and August. Jordan says:

The spring salmon ascend only those rivers which are fed by the melting snows from the mountains, and which have sufficient volume to send their waters well out to sea. Such rivers are the Sacramento, Klamath, \* \* \* etc.

Those salmon which run in the spring are chiefly adults (supposed to be at least three years old). Their milt and spawn are no more developed than at the same time in others of the same species which will not enter the rivers until fall. It would appear that the contact with cold fresh water when in the ocean, in some way caused them to turn toward it and to "run" before there is any special influence to that end exerted by the development of the organs of generation.

High water on any of these rivers in the spring is always followed by an increased run of salmon. \* \* \* The average weight of the Quinnat in the Sacramento in the spring

Those fish which enter the rivers in the spring continue the ascent until death or the spawning season overtakes them. Probably none of them ever return to the ocean, and a large proportion fail to spawn. They are known to ascend the Sacramento as far as the base of Mount Shasta, or to its extreme headwaters—about four hundred miles.

At these great distances, when the fish have reached the spawning grounds, besides the usual changes of the breeding season, their bodies are covered with bruises, on which patches of white fungus develop. The fins become mutilated, their eyes are often injured or destroyed, parasitic worms gather in the gills, they become extremely ema-ciated, their flesh becomes white from the loss of oil, and as soon as the spawning act is accomplished, and sometimes before, all of them die.

#### Dr. G. Brown Goode says of this fish:

Fifty years ago it was hardly known, except to students of natural history. Now it is thown and eaten almost all over the world, for there is hardly a port in the world where ships have not carried the canned salmon of the Columbia, which is the same fish under a different name; and not only has this fish, in the form of food, traveled nearly all over the world, but the living embryos of the California salmon have been transported to Indand, France, Germany, Belgium, Denmark, Russia, Australia, and New Zealand, that there is probably no one fish inhabiting a limited locality which is known over the world in so many different places as the California salmon.

The four species of Oncorhynchus found in the Sacramento are distinwished by the following characters:

& Scales small, lateral line more than 200 \_\_\_\_\_\_Gorbuscha. na. Scales large, lateral line 125-155.  bb. Pyloric ceca 140 or more.
c. Anal rays 15–14; branchiostegals 13–14
cc. Anal rays 16; branchiostegals 15–19
Tchawytchi

#### Oncorhynchus gorbuscha Walbaum.

This, the Humpback salmon, is only occasionally taken in the Sacra mento and Columbia. It runs every other year in Puget Sound. It reaches a weight of three to seven pounds.

#### Oncorhynchus kisutch Walbaum. Silver Salmon.

This salmon runs in the Sacramento in summer and fall; it does not exceed eight pounds in weight, and many are doubtless confounded with the young of the Quinnat. From this they are, however, readily distinguished by the number of ceecal appendages about the stomach, which scarcely exceeds seventy-five in this species, while there are more than one hundred and twenty-five in the Quinnat. Mr. Chas. Ohm took the young of this species, five and seven eighths inches long, in Paper Mill Creek, on March 24, 1890.

### Oncorhynchus keta Walbaum. Dog Salmon.

I have not yet seen any fresh examples of this species. It is said to be abundant in the fall from the Sacramento northward, when it ascends all the streams for a short distance. It does not begin to "run" until its sexual organs are well advanced in development and its flesh proportionately deteriorated. For this reason it is of no great economic value.

### Oncorhynchus tchawytcha Walbaum. Quinnat Salmon.

This is the salmon par excellence, and, like Salmo salar, "stands preeminent, like a Highland Chieftain, needing no name save that of his clan." It is still "The Salmon," "Quinnat Salmon;" and "King Salmon" when ready to be eaten, "Columbia Salmon "or "Alaska Salmon."

What I have said under the head of the genus Oncorhynchus in general applies to this species especially. I have caught the very young of this species (about two inches long) at Mare Island, on April 17, 1890.

#### SALMO.

The species of this genus are variously named by the fisherment The young taken in the mountain streams are all Brook trouts, or Rainbow trouts; the old ones are Trout, Steel-head, Salmon trout, and even Salmon, and a special series of names has been invented in Lake Tahor.

It is concerning the members of this genus that there was such discussion in the papers during last spring. For practical purposes, all the species of this genus may be classed as one, and covered by a general law protecting trout. All the rules of the angler will not suffice in distinguishing the species, and such practical experiments as scraping the scales with the thumb nail to distinguish Brook trout from Salmon trout, are perfectly useless. Every angler knows how variable the trout are in the different streams and ponds, and Dr. Günther's words, quoted above, are but the expression of the experience of every naturalist, well as of every angler. Through the courtesy of Mr. Charles Ohm,

have been able to examine about seventy-five Brook trouts from different streams, and others have come into my hands from Mr. Belding. Although the alcohol has obliterated most of the color markings, it can still be seen that no two streams have trout with exactly the same characters. To add to the confusion, the young of the salmon greatly resemble the trouts, and the old trouts greatly resemble the salmon. Young salmon have been brought to me as Brook trouts; and I bought a splendid Brook trout, nineteen inches long, which the fish dealer declared was a salmon, and willing to prove it by as large a bet as I would name.

I do not know where trouts have been planted, and where those so planted were procured, but the native species are distributed as follows:

1. The Brook trout, or Rainbow trout (Salmo gairdneri irideus Gibbons), in all mountain streams west of the Sierra Nevada from Mount Shasta to Lower California.

2. The Steel-head (Salmo gairdneri Richardson), from the Sacramento northward.

3. The Northern trout (Salmo purpuratus Pallas), from Mount Shasta northward.

4. The Tahoe trout (Salmo purpuratus henshawi Gill and Jordan), in the Truckee Basin, including Lakes Tahoe, Donner, Pyramid, and possibly Eagle.

It is thus seen that three of the trouts inhabit contiguous territory, while the other, the Steel-head, overlaps the territory of two of the species. There are, however, so many forms which are intermediate between the Brook trout proper and the Steel-head that the former may be looked upon as simply a southern form of the latter, or, conversely, the latter a northern form of the former.

These species and varieties are extremely hard to distinguish unless specimens of the same size are at hand. They may be determined by the following technical characters arranged by Dr. Bean:

bb. Anal rays, 10; depth of body much exceeds length of head in young; tail of adult forked \_\_\_\_\_\_\_S. gairdneri irideus; Brook, or Rainbow trout. aa. Hyoid teeth.

# Salmo gairdneri Richardson. Steel-head Salmon.

This trout is not infrequently brought into the San Francisco market during the close season. At other times it is not so abundant, and in summer and fall it is rarely seen. It reaches a weight of twenty pounds. The California Academy of Sciences possesses a large specimen, he gift of Mr. Charles Ohm. It measures two feet five inches in length, and is a spent male.

There are several others smaller than this in the Academy's collection, presented by the same gentleman. It is more slender than the Rainbow wat or the Quinnat salmon, and does not ascend streams to any great stance.

Very little or nothing is known of the habits and life history of this pecies, and any notes on its migration, etc., ought always to be kept.

The young have very rarely been found, a fact which has led many to believe that the Brook trout are only the young of this species, especially as the latter are always, or usually, found in abundance in the same streams.

#### Salmo gairdneri irideus Gibbons.

This is the Rainbow or Brook trout proper. It is also known by various other names. There is no difficulty in distinguishing the adult of this species from the adult of the Steel-head, but the half grown are remarkably alike, and intergradations of all sorts are abundant. It does not attain nearly the size of the Steel-head, the largest recorded weighing but six pounds. These large examples are very rare. I have seen only one in the markets of San Francisco, and, as I have stated above, this was represented to be a young salmon.

The young are caught in large numbers in all the trout streams in Central and Southern California. It probably does not enter salt water as readily as the Steel-head, but it probably runs into the sea from short rivers which are dry in summer, and from others having a continuous stream of clear water.

It is a most excellent table fish, but not caught in quantity for the market. Its chief value seems to be to offer sport to anglers, and this is said to be of a very tame kind. It has been extensively introduced and seems to flourish in many eastern streams. Specimens have been taken in salt water near Oakdale, Long Island.

It varies more in size, color, etc., with the stream it inhabits than any other fresh-water fish.

Mr. Henshaw says of this species:

This is the common Brook trout of the small mountain streams of the Pacific Slope and up to an altitude of nine thousand feet it is the rare exception to find a suitable stream that is not well stocked with it. Upon many of them, as the tributaries of the South Fork of the Kern River, these trout are found in very great abundance, each pool and rapid numbering its finny denizens by the score. They may be taken in any sort of weather, at any hour of the day, by almost any kind of bait. During the heat of the day they frequent almost entirely the deeper pools, lying under overshadowing rocks or in the shade of some convenient log. In early morning or late afternoon they come out and run more into the shallows and rapids, under which circumstances they hite best and afford the finest sport. Like the average Brook trout the species rarely attains any considerable size, ranging from four to eight or more inches in length. Their colors are usually very bright, and for beauty this species takes rank among the foremost of its kind, and has well been called the Golden trout. In this respect, however, it is subject to the usual variation obtaining in the family, the change of color not only accompanying a difference in locality, but being plainly discernible in individuals taken in different parts of the same stream not far distant. In fact, as a specific character, color in this family seems to be at its lowest value. The character of the bottom and water itself has much to do with this, and I remember to have fished in a small rivulet on one of the subalpine meadows not far from Mount Whitney, whose sluggish waters flowed over a bottom of dark mud, in which the color of the trout simulated very closely its hue; they had lost nearly all the flashing iridescent tints characterizing the same species caught but a few hours before in another stream, and had become dull and somber-hued. Accompanying this change of color was a correspondingly noticeable difference in the habits and motions, and the several dozen trout caught that evening for supper were taken out by the hook with the display of very little more gaminess than would be noticed in so many Horned pout. On the contrary, in the clear rapid current of the mountain stream, a flash of sunlight is scarcely quicker than the gleam of gold and silver, seen for a single instant, as the whirling waters are cut by one of the trout as he makes a rush from his lurking place for some chance morsel which is being borne past him. The western trout are rarely as shy as their relatives of eastern waters, and because of their numbers and consequent scarcity of food are apt to be less fastidious; yet even when most abundant due caution must be used if one would be successful, and not every one can catch trout even in the West. With the proper care in concealing one's self a pool may be almost decimated ere the alarm will be taken, and I have seen fifteen fair sized trout taken from a single small pool in quick succession.

Salmo purpuratus Pallas. Oregon Brook Trout; Salmon Trout; Lake Trout.

I know nothing personally of this fish. It "is very abundant in all the waters north of Mount Shasta, and through the Great Basin and Rocky Mountain region; occasionally southward to Santa Cruz." It seems to have skipped California, except some parts of it; is found in abundance to the north of us, and extends farther south than any other salmon, having been "obtained by Professor Lufton from streams of the Sierra Madre, Mexico, at an elevation between eight and nine thousand feet in the southern part of Chihuahua, near the boundaries of Durango and Sinaloa." It occasionally reaches a weight of twenty-five pounds in the Columbia. These large ones are known as Steel-head, the young as Brook trout, and the partly grown as Salmon trout. It is of considerable importance economically, and its introduction into all streams suitable to it is to be recommended.

#### Salmo purpuratus henshawi Gill and Jordan.

This, the Lake Tahoe trout, is of greater economic importance than the others. It is abundant in the San Francisco markets all through spring. The fishermen of Lake Tahoe keep their catch alive till they have a sufficient number to warrant a shipment, when they are killed, boxed, and shipped to San Francisco. The past year one company had the entire control of the Tahoe catch.

This fish is known under various names to the fishermen and anglers of Lake Tahoe, who consider the variations, due to age, sex, depth of water, and character of bottom, all of specific value. If we keep in mind, however, the statements made by Dr. Günther, all the variations can easily be explained. The trout reported to me while at Lake Tahoe last June were: First, the Big Black trout, reaching a weight of twenty-nine pounds, and spawning in the rivers in April and May. Second, the Red trout, probably not exceeding a weight of seven pounds, which spawns in the streams from May to the first of August. Third, the Pogy or Porgy, weighing one and a half to two pounds, and spawning the latter part of August and during September. Fourth, the Silver trout, reaching nearly seventeen pounds in weight, and spawning in the lake in October and November. Fifth, the Yellow Belly or Sulphur Belly, the time and place of spawning not determined. Sixth, the Brook trout, found in the streams about Lake Tahoe.

In this connection I can but quote, with slight modification, what we have said elsewhere—"San Francisco Chronicle," August 31, 1890:

The so called Big Black trout we did not see. The eggs of this large trout are larger than those of the Red trout, and grayish in color; the young are also gray. The eggs and young of the Red trout are almost cherry red, and the pigment of the young, reared in the hatchery, is much more developed than in those of the big trout. The facts brought wour notice would seem to indicate that the big trout is a species distinct from the Red trout. It would not, however, be surprising if this should prove to be only the adult form of the Red trout. The difference in the size of the egg, and in the time of spawning, is not thout its parallel in sea fishes, and the difference in color is, as we have seen, easily seconted for.

The Red trout has meat of a light pink color. The branchiostegal membrane is bright d. The females which have deposited their ova are quite silvery, while the males hich have spawned are of a dark cherry color on the sides, darker above and lighter

Now. All the numerous individuals seen were pretty uniformly spotted.
The Porgy is unquestionably the young Red trout during its first spawning season. "It
so fat that it may be fried in its own grease." The later time of spawning is readily
counted for by the youth of the Porgy, while its place of spawning (in the lake) is made

a necessity by the fact that, in all but unusually late seasons, like the present, the stream emptying into the lake become dry by the time this fish is ready to spawn. In color the Porgy is intermediate between the male and female trout, but the spots are much less

regular.
The Silver trout may readily be distinguished at a glance in life, but the Porgy is readily taken for a Silver trout when life is extinct. Two Porgies purchased at the wharf of Tahoe City appeared to be Silver trout when they reached our hotel. The meat is of a salmon color. Many of the Silver trout are, without any doubt, the Red trout at a stage younger than the Porgy. If the assertion be true, that the Silver trout attains a weight of seventeen or eighteen pounds, the lack of color is doubtless due to the surroundings.

The Yellow-belly is a Silver trout from a different bottom, which has changed the

silvery to yellow. The Brook trout of this region are merely the young of the Red trout. They are quite

distinct from the true Brook trout (Salmo irideus).

It will thus be seen that the trout of Tahoe belong at most to only two species, and very

possibly to a single one.

At the fish hatchery of the State Fish Commission, located at Tahoe City, thousands of trout are now being hatched. The troughs at the hatchery are filled with the trout in all stages of development, from the current-like egg to the food-hunting fish an inch long which has lost its yolk-sac, or source of nourishment.

#### Salvelinus malma Walbaum. Dolly Varden; Red-spotted Trout.

This is another species concerning which I have no personal knowledge. It is indigenous to the region west of the Cascade Range, from Northern California to Alaska. According to Goode it is the most important of our chars, next to the Eastern Brook trout. It descends to the sea, and reaches the weight of fourteen pounds, but in the mountain streams it spawns at a length of six or eight inches. They are reported to spawn late in the fall in the rivers.

#### CENTRARCHIDÆ. The Sunfishes.

# Archoplites interruptus Girard. Sacramento Perch.

This is the only California representative of the numerous species of sunfishes inhabiting North America. It is found throughout the Sacramento and San Joaquin Valleys, and descends to tide water. It is not frequently brought into the market, and is of no great economic value.

# Holconotidæ. Viviparous Perches.

# Hysterocarpus traski Gibbons. Viviparous Perch.

The economic value of this fish is entirely incommensurate with its scientific interest. It does not reach a large size. It is found throughout the Sacramento Valley. It is the only American fresh-water representative of the viviparous family *Holconotidæ*, of which there are so many species along the entire coast of California. While all our other fresh-water fishes deposit spawn, this species brings forth living young in an almost mature stage.

Its characters have been so changed, probably by its permanent stay in fresh water, that it now represents a sub-family quite distinct from its marine relatives.

## COTTIDÆ. Sculpins.

The members of this family are mostly marine, and species of Cottids abound along the entire coast of California. Some of them reach a large size, and are brought into the markets; but most of them are small and of no importance.

Cottus. Bullheads; Miller's Thumbs.

The remaining species of fresh-water fishes are all small, and only indirectly of economic interest. Our account of the one found at Lakes Tahoe and Donner will serve for them all.

Large individuals (about seven inches is large for this fish) are especially abundant near the hatching house of the Fish Commission, where the dead trout eggs are thrown each day. A handful of trout eggs is certain to bring a bullhead from under every stone in the vicinity. This fish is related to the Oligocottus analis, a marine species of bullhead living in tide pools on the coast of California, which changes, according to food and surroundings, from a grass-green to gray of various patterns. The changes in color of Cottus minutus are no less striking. Over a muddy bottom this species is quite black, assuming a drab or "sand color" over sandy bottom; while over rocks and pebbles it is conspicuously banded with light and dark. The bullheads are very destructive to the trout. They lie in wait for them at the mouths of creeks for the descent of the young ones. The bullheads, in their turn, form the principal food of a species of Eutenia, abounding on the shores of the lake.

5 °

#### WHY SALMON ARE SCARCE.

LETTER FROM DR. H. W. HARKNESS, PRESIDENT OF THE CALIFORNIA ACADEMY OF SCIENCES.

Upon reëxamining the subject, with the view of determining the cause for the scarcity of salmon in our rivers, we find that the principal agent engaged in their destruction is man.

Man accomplishes this in various ways—by the fouling of the rivers by manufactories, by dams or other obstructions, and chiefly by seince

fishing.

The modern appliances are so perfect, and the pursuit of fish so active and persistent, that we are convinced that should the fisherment comply with the law in every particular, even then the salmon would disappear altogether from our waters; but when we take into consideration the fact that all unfair means are resorted to for the purpose of increasing the catch, we are no longer at a loss to account for their scarcity.

If our fishermen would but pay a decent respect to the laws, and furthermore would capture only a sufficiency for the supply of the market with fresh salmon, our rivers, with assistance from the State in the way of restocking at intervals, might still continue to be productive

for an indefinite period.

There is one source of waste, as we look upon it, however, which should be prevented by the authorities, viz.: the canning interest. From time to time the Government has expended large sums of money for the purpose of stocking our rivers with salmon. This is the act of a paternal government with the sole idea, as we view it, of furnishing to all of the inhabitants of the State, so far as it is possible to do so, an opportunity for supplying the table with a cheap, nutritive article of food.

The taxpayers at large are called upon to pay the cost, and all are alike to share in the benefit. Let us examine for a moment, to see if there is a fair distribution of the results of this outlay. If, as has been previously stated, after the stocking of the rivers, fishing was conducted in accordance with the laws (fishing being prohibited during certain days, in order that a percentage of the breeding fish might escape); also, that the close season should be strictly observed, and further, that the exportation of fish should cease under these conditions, we believe that our rivers would, for an indefinite period, continue to furnish salmon in quantity sufficient to meet the home demand.

No sooner, however, does the salmon appear in tolerable abundance than the canner begins his work. Either by hiring boats and fisher men himself, or by offering tempting rewards to the fisherman for his catch, he is enabled to cover the river with boats in such numbers as to capture a large proportion of the product of the stream before they can

pass his establishment.

If the fish so captured from the Government preserves were distributed as canned provisions among our people, there would be some slight

excuse; but when we come to learn that all, or nearly all, are shipped away to foreign countries, we begin to realize that the people are being defrauded of their just dues.

The canner may claim that he is realizing but a small percentage of profit, or he may affirm that he has met with material loss, yet this has nothing to do with the subject. He is responsible for the increase of the price of fresh fish, and he is to be blamed for the final exhaustion of the rivers. There is no river, however rich it may be in salmon, but must eventually become impoverished if the canner is to be allowed to pursue his vocation, even when under limited Government surveillance.

During one year, some time back, there were two thousand men and one thousand boats engaged in the salmon fisheries of the Sacramento River alone. How many of these were employed by the canners we are unable to determine. As his means of canning fish are practically unlimited, and he has the world for a market, the canner has but to increase his fishermen until the stream is so far exhausted as to be of no further value.

In our judgment, the business of the canner should cease, or else the Government should abandon the plan of stocking the rivers when the

results are so unsatisfactory.

We feel that this is a question of the greatest importance, and that the attention of the authorities should be called to it, and that the facts should be set forth so clearly as to induce them to take steps to remedy the evil.

To illustrate the case still more fully, we will suppose that our rulers should, while acting in the capacity of a paternal government, determine to set aside a large tract of land for a deer park, where large bands of these animals might be cared for with the view ultimately that venison should be furnished cheaply at certain seasons to the people of the State. What would be said of the economy of such a proceeding if the Government, during the hunting season, should permit individuals to kill the deer without hinderance for the purpose of canning the flesh so secured and sending it away to a foreign market?

# TENTH ANNUAL REPORT

OF THE

# STATE BOARD OF PRISON DIRECTORS

OF THE

STATE OF CALIFORNIA,

FOR THE

FORTIETH FISCAL YEAR, ENDING JUNE 30, 1889.



#### SACRAMENTO:

STATE OFFICE::: J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# STATE BOARD OF PRISON DIRECTORS.

ROBERT T. DEVLIN	Sacramento.
CHARLES SONNTAG	San Francisco.
EDGAR J. DEPUE	San Francisco.
A. E. SHATTUCK	San Francisco.
JOSEPH CRAIG	Woodland.

# OFFICERS OF THE STATE PRISON AT SAN QUENTIN.

JOHN McCOMB	Warden.
BEN. CHAMBERS	Deputy Warden.
J. V. ELLIS	
ED. REDDY	Adjutant.
F. C. DURANT, M.D.	

# OFFICERS OF THE STATE PRISON AT FOLSOM.

CHARLES AULL	 Warden.
W. W. CUNNINGHAM	 Clerk.
W. H. ROBINSON	 Deputy Warden.
RICHARD J. MURPHY	 Captain of the Guard.
T. B. EAGLE	 Visiting Physician.
GILES G. CRANDALL	 Commissary.
BRAINARD F. SMITH	 Secretary.

# REPORT.

November 15, 1889.

To his Excellency R. W. WATERMAN, Governor of the State of California:

The State Board of Prison Directors beg leave to submit herewith their annual report for the fiscal year ending June 30, 1889, with copies of the reports of the Wardens and Clerks of the respective prisons at San Quentin and Folsom.

Your Excellency will find that these reports are very complete, covering in detail a history of the work accomplished in the prisons during the year just past. For this reason, much of the labor in the way of a full report, that otherwise would fall upon us, has been saved; still, however, we shall trespass upon your time to call your attention, briefly, to some of the more salient features connected with prison management.

At San Quentin, in years past, various industries have been followed, but in February of this year it was deemed best to abolish all industries, save the manufacture of jute fabrics. Accordingly, after full consultation with your Excellency, a resolution was passed abolishing all kinds of productive labor, save that just mentioned. From that time on, the labor of convicts at San Quentin has been devoted solely to the manufacture of

The system of working convicts, both by day and by night, has proven

a complete success.

This is no longer an experiment, but the facts and figures submitted in the annexed reports, as well as the examination made by the expert appointed by yourself, show that the cost of bags manufactured by night is practically the same as the price of those manufactured by day.

A glance at the Clerk's report will show that not only has this industry been useful in saving farmers from paying exorbitant prices for bags, but

at the same time has been highly remunerative to the State.

In our last report we made suggestions for the purchase of additional land and the erection of new buildings. The matters there submitted were very fully considered by the Legislature, and the result was that appropriations were made for the purchase of additional tide lands and for the erection of necessary structures.

Most of the purchases authorized by the appropriations mentioned have

been made.

The Legislature, recognizing the necessity of making provision for insane criminals, passed an Act, appropriating a certain sum for that purpose. It will not be questioned, at this day, that a separate institution is necessary for this class of prisoners. The testimony of Superintendents of passes asylums shows that these institutions have not the facilities for properly guarding insane criminals, nor has a prison the opportunity for teating them properly, from a sanitary point of view. We regret to say, lowever, that the appropriation is scarcely adequate to give to the State an astitution of the size and character that this should be. Plans have been

drawn for the erection of a building, at an estimated price that will bring it within the limits of the appropriation. These plans have not, however yet been definitely adopted by the Board.

Plans have been drawn and adopted for the other buildings, for which appropriations were made by the last Legislature, and some of the structure.

tures are now in process of erection.

At Folsom, the work on the dam and canal, mentioned in our previous

report, has been, during the past year, vigorously prosecuted.

It is unnecessary at this time to speak of the value the State will derive from this work when completed. The report of A. W. Von Schmidt, printed in our last report, removes this fact beyond the realm of conjecture.

A considerable portion of the tract of this prison has been set out in fruit trees, and a still greater quantity will be set out during the coming

year.

An Act of the Legislature, last session, made an appropriation of \$112,500 for the purpose of purchasing materials for the construction of a power house, in order to utilize the waters of the American River for power purposes, and also for the purchase of wheels, machinery, and pipes necessary to supply the prison with water, and for piping necessary to supply the power for running electric lights for the prison, and iron-stone pipes for sewers.

Some time ago the Board employed P. A. Humbert, civil engineer, to draw up plans and specifications for a power house, and for the construction of machinery to utilize the power belonging to the State. These plans and specifications have been submitted to the Board, and work thereon will soon be commenced.

Among other duties placed upon the Board of Prison Directors, at the last session of the Legislature, was that of purchasing a site for a School

of Industry for boys, at or near Ione.

We refer to the fact with some pleasure, that the views contained in our last report, showing the absolute necessity for the establishment of such an institution in this State, which were in full accord with those expressed in your message to the Legislature, were received and acted upon by the members of that body.

The Act referred to provided that the site to be selected should, among other things, have water facilities sufficient for the uses of said school,

and for power in operating machinery.

This clause has given the Board a great deal of difficulty, for the reason that it requires, to some extent, the examination of an expert to determine what facilities each site possesses in this respect.

For the purpose of determining this fact, the Board employed A. W. Von Schmidt to make an examination, and his report has just been received.

but no action thereon has yet been taken.

The urgent necessity for the establishment of an institution for the young boys who have not yet become adepts in crime, in order that they may be weaned from their evil paths, imbued with sentiments of morality, and taught some useful occupation, by which they may, in after years, earn their livelihood, is patent to every one who has given the least attention to the subject.

States that cannot compare with California, either in wealth or population, have schools of this character, and California is really behind her

sister States in the matter of reformatory institutions.

It is useless to dilate upon this subject further, for your Excellency was among the first to call to the attention of the people of this State the necessity for the creation of such a school. The pages of this report will show

that many are found in both our prisons, who ought to be in an institution of this character, but, unfortunately, no provision is made elsewhere for them. When a young boy is convicted of felony, no institution, under the present condition of affairs, can receive him but the State Prison.

In conclusion, permit us to say, that we hope, before submitting our next report, to have carried out fully all the measures of improvement and reformation in our penal institutions spoken of in our last report, or for which provisions were made by the Legislature, and that we desire to acknowledge the many courtesies that you have extended to us.

Respectfully submitted.

ROBERT T. DEVLIN. CHARLES SONNTAG. EDGAR J. DEPUE. JOS. CRAIG.

# REPORT OF THE WARDEN

OF THE

State Prison at San Quentin, California.

# WARDEN'S REPORT.

WARDEN'S OFFICE, SAN QUENTIN PRISON, August 1, 1889.

To the honorable State Board of Prison Directors:

GENTLEMEN: It is very gratifying to me, in presenting my second annual report as Warden of the State Prison at San Quentin, embracing the period from July 1, 1888, to June 30, 1889, to be able to call your attention to the very satisfactory financial condition of the prison, as shown by the tabulated statements of the Clerk accompanying this report. The condition is all the more gratifying because an extraordinary return from the Manufacturing Department was needed to supplement the scant appropriation for the support of the prison for the next two years; and because, by this unprecedented success, it is possible to return to the State Treasury a portion of the surplus. The tables of the Clerk's report show the following resources on the thirtieth of June, 1889:

Oash on hand and in bank Due from sundry debtors	45,863 4,934	
Less liabilities on account unpaid bills and salaries	\$219,721 26,951	07 18
Leaving a net surplus of available cash resources at the end of the year of	\$192,768	89

The amount of net earnings during the past year is larger than that of previous years,

Against \$89,945 67 for the year ending June 30, 1888.
52,158 76 for the year ending June 30, 1887.
60,094 16 for the year ending June 30, 1886.
58,986 89 for the year ending June 30, 1885.

This increase in earnings was accomplished in the face of the loss of ncome from the sash and door factory—regarded as the most profitable industry ever pursued in this prison. By order of your honorable Board, the manufacture of doors, sashes, and blinds was peremptorily and finally discontinued on the first of March, and by that act an income of \$25,000 \$30,000 a year was at once cut off. The action was taken to satisfy bose who claimed that the labor of free citizens was interferred with and injured by the employment of our convict force. The operatives who were brown out of employment by shutting down the sash and door factory mere at once assigned to duty in the jute mill, and the result of their labor the end of the year demonstrated that any apparent pecuniary loss estained by the State on account of the abandonment of this discarded dustry was fully made up by the increased earnings of the Jute Departent, as shown in the following table, containing a synopsis of the output, les, and profits realized from the sale of jute goods during the past ree years:

TATEMENT OF OPERATIONS OF JUTE DEPARTMENT FOR THE FISCAL YEAR ENDING JUNE 30, 1889.

•	First Year Ending June 30, 1887.	Second Year Ending June 30, 1888.	Third Year Ending June 30, 1889.	Year over First —Per Cent	Year over Second—Per Cent.
Number of yards burlap man- ufactured	2,180,047	2,951,414 \$48,648,170 \$180,047,160 \$51,120,100	\$,619,015 \$69,841 <sub>1</sub> 260 \$273,510 <sub>1</sub> 50 \$80,926 <sub>1</sub> 80	$35_{100}^{4}$ $32_{100}^{18}$ $36_{100}^{700}$ $196_{100}^{52}$	22, 43, 51, 58,

The apparent difference in this table between the rates of increase output and manufacturing expenses during the past year over those of the previous year, is due to the very large advance at the beginning of the year in the price of coal required to operate the mill, this article forming one of the principal items in the manufacturing expense. The price of coal during the year ending June 30, 1888, had been \$6.65 per ton, whereas during the year just ended the price of the same coal was \$9 per to During the thirty-ninth fiscal year, ending June 30, 1888, the mill was operated with but one shift of men for eight and one half months, and with two shifts for three and one half months; and consumed coal to the value of \$13,301.82, or almost exactly two thousand tons at \$6.65. During the whole of the past year the mill was operated with two shifts of men, and although consuming only about 50 per cent more of coal (two thousand nine hundred and sixty-six tons), the value of the same was increased to \$26,697.79, a fraction over 100 per cent.

To more clearly demonstrate this, the manufacturing expenses for the two years were, as stated in above table:

	Year Ending June 30, 1888.	Year Ending Jun 30, 1889.
Manufacturing expenses  Deduct value of coal used	\$48,648 17 13,301 82	\$69,841 2 26,697 7
Leaving	<b>\$35,34</b> 6 35	\$43,143 4

Or an increase of 22.06 per cent in all expenses incurred in manufacturing jute goods, excepting cost of raw jute and coal, against an increase of 22.62 per cent in the output. This would indicate that all these expenses remained about the same, and that the increased cost of production is due entirely to the advance in the price of coal.

The sales of grain bags were conducted during the past season on the same plan as that adopted last year, and it is most gratifying to me to sat that our efforts to sell only to direct consumers as far as possible, met the cordial approval and coöperation of the farmers of this State, who signified the same by sending in their orders for bags to such an extent, that a times they covered a large quantity in excess of our stock on hand, and is several instances we were compelled to decline acceptance of an order, as we could not guarantee against accident for so long a time in advance possible manufacture.

A detailed statement of the operations of the jute mill is herewith submitted:

gaw jute on hand July 1, 1888	
Total	9,247 bales. 1,408 bales.
Total	- ,
Used in manufacturing during the year	. 7,828½ bales. ,400 pounds.
Over amount on July 1, 1888 35,120 pounds.	,224 pounds.
<del></del>	
Net amount of raw jute used during the year	176 pounds.
Goods Manufactured.	
36398  cuts = 3,567,004  yards  45 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  cuts = 52,011  yards  40 -inch burlap;  525  c	•
Three-ply twine, 4,148 pounds; five-ply twine, 121,809 pounds; of which an pounds were used in sewing bags, and 4,250 pounds in baling goods. Number of grain bags made during the year out of burlap manufactured, 3	nount 47,694 5,052,433.
Spinning and Weaving Expenses.	
Coal	\$26,697 79
Inte oil	1,830 40
Sizing	3,392 14
Cotton twine Machine oils and engineer's supplies	1,730 84 1,206 55
Mols and renairs	10,048 72
Tools and repairs	4.446 57
Selaries	12,115 26
Insurance	728 80 1,280 33
discellaneous (board of employés, stationery, etc.)	111 82
	\$63,589 22
less expense incurred in sewing bags and keeping sewing machines in repair:	
Say five per cent of coal       \$1,334 89         Say ten per cent of sizing       339 21	
Say one hundred per cent of cotton twine	
Say five per cent of machine oils, etc	
Say five per cent of machine oils, etc. 60 33 Say ten per cent of tools and repairs 1,004 87	•
say nve per cent of salaries	
Say ten per cent of gas	
and the second of this control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second	5,584 60
Not expense of grinning and marring 2010 015 mards of cloth	#E0 004 00
Net expense of spinning and weaving 3,619,015 yards of cloth	\$58,004 62
Sewing Expenses.	
ercentage of gross spinning and weaving expenses, as per statement above.  He pounds twines manufactured and used in sewing bags, at \$4 15	\$5,584 60 1,979 30
Total expense of sewing 3,052,433 grain bags	\$7,563 90
Baling Expenses.	
Tards of 12-ounce cloth at 4.5103 equals15  Sounces of twine at 4.15 equals	0.5446 cents. 2.60 cents.
ounces of twine at 4.15 equals 25 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 equals 16 eq	3.00 cents.
total (per bale)4	
st of baling one grain bag (500 in a bale) (600 in a bale) (700 to 800 yards per bale)	0.0803 cent. 0.0535 cent.

#### Shipping Expenses.

Shipping Expenses.		pivided as follows:	
Drayage credited to stock department.		Value of raw jute used	
\$35 per month, on say 600 bales of goods (per bale)	5.83	Less increase in value of raw jute in process of manufacture. 341 84	
Freight on steamer to San Francisco (per bale)		Net value of raw jute used in manufacturing \$110,001 05	
· ·		FO 004 00	
Total (per bale)	30.83	Center : 0 : 5 E 0.4 CO	
Cost of shipping one grain bag	0.062	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cost of shipping one yard burlap	0.041	Freight on manufactured goods	
		New set of boilers and repairs on old boilers, as per bill of	
COST PRICE OF GOODS MANUFACTURED DURING THE YEAR ENDING	JUNE 30, 188	New set of boilers and repairs on old boilers, as per bill of Union Iron Works, July, 1888	
	,		\$179,842 31
45-Inch Burlap.			
12 ounces of jute at 3.524 per pound	2.643	Goods Sold During the Year Ending June 30, 1889.	
Waste 10 per cent	0.2643	3 contact	
Cost of spinning and weaving	1.603	cent   12,200 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags, at 7½ cents   1,034,750 22x36 grain bags	\$58,884 50
		$-$ 1034,750 22x36 grain bags, at $7\frac{1}{2}$ cents	77,606 25
Cost, loose	4.5103	3 cent 209,058 22x36 grain bags, at 74 cents	93,702 00
Baling	0.0535	5 ce 284,100 22x36 grain bags, at 8 cents	21,128 00
		3,500 imperfect grain bags, at 5 cents	175 00
Cost in bale			1,200 00
Shipping	0.041	1,600 4-pound wool bags, at 32 cents	512 00 15 00
Cout delimened in the Transiero (non read)	4 6040	50 33-pound wool bags, at 30 cents	27 77
Cost delivered in San Francisco (per yard)	4.0048	3 cents 1,050 odd and damaged bags 52,011 yards 40-inch burlap, at 5 <sup>2</sup> / <sub>10</sub> cents.	2,756 59
		17 yards 45-inch burlap.	2,750 33
22x36 Grain Bag.		970 yards 45-inch burlap, at 5 cents.	48 50
20 inches of 45 inch human at 4.5102 cents non word	4 0000		12,489 72
39 inches of 45-inch burlap, at 4.5103 cents per yard	0.949		429 31
Dewing	0.240	20 yards 45-inch burlap, at 7 cents	1 40
Cost, loose	5 1349	2 com 44 yards 45-inch burlap (sewn together), at 7½ cents	3 30
Baling		1 bean cloth, 35x35 feet	9 75
744119		t Dean cloth, 40x40 feet	11 75
Cost in bale	5.2145	1 bean cloth, 48x50 feet	17 50
Shipping	0.062	l bean cloth, 15x15 feet	1 25
		1 Ocan Cloth, loxio leeb	1 50
Cost delivered in San Francisco (per bag)	5.2765	5 cent 4,098 pounds 3-ply twine, at 8 cents	327 84 3,518 90
2		50,270 pounds 5-ply twine, at 7 cents. 50 yards ore cloth (damaged old stock), at 5 cents.	2 50
TOTAL OPERATING COST OF JUTE MILL FOR THE YEAR ENDING JU	UNE 30, 1889.	3429 pounds jute rope, at 2½ cents	85 73
	•	33,082 pounds jute rope, at 1\frac{1}{3} cents	372 17
Total expenses incurred, including value of supplies on hand July 1, 18	388:	490 nounds loom wests at Lot a cont	2 10
Raw jute	\$130,	<sup>424</sup> ™ 9664 pounds loom waste at 2 of a cent	84 57
Raw jute in process of manufacture	<u></u> ,	$^{504}$ 8 3.982 pounds loom waste, at 1\frac{1}{2} cents	44 79
Coal		336 11,740 pounds card waste, at § of a cent	73 38
Sizing		bary seed and charged to departments of the prison:	
Jute oil			6 00
Cotton twine			6 60
Machine oils and engineer's supplies			12 54 11 25
Tools and repairs		,245 Dayage charged in bills	J1 20
Salaries	12	. 115 <b>2                                 </b>	\$273,570 46
Gas	4,	446 Mass shortege in remitten so for 1 500 grain base in Tuly 1999 \$0.05	ψ210 <sub>1</sub> 010 <b>3</b> 0
Insurance	•	128 Selecte for freight on 120 000 bags received by numbers on board	
Miscellaneous	1,	298 their own vessels—240 bales, at 25 cents per bale	•
Freight on manufactured goods	2,	.148	60 05
		- 000 H	
T 1 1 1 1 1 T 2 1 1 1 1 T	\$204,	1.668 Net amount of sales	<b>\$273,510 41</b>
Less value of supplies on hand June 30, 1889:	001 55		
Raw jute\$20	,USL 00	PROFIT AND LOSS ACCOUNT.	
Raw jute in process of manufacture	,612 15 639 15	<b>4</b>	
CoalJute oil	59 40	t amount of sales of jute goods during the year ending June 30, 1889	\$273,510 41
Sizing	98 <b>4</b> 7	goods on hand June 30, 1889, at cost price	1,966 64
Cotton twine.	129 00	Seduct:	075 477 05
Rope	75 90	Net operating expenses for the year \$179,842 31	275,477 05
Machine oils and engineer's supplies	39 16	Value of goods on hand July 1, 1888	
Tools and repairs	072 94	гано от goods он напи эту 1, 1000	94,550 19
	10 50	na 4 Table 1	
<del></del> -	24,82	Net profit on goods sold during the year	80,962 86
			,- <del>-</del>
Net operating cost for the year	\$179,84		
•			
•			

#### RECLAIMING THE WASTE LANDS.

The work of improving the State Prison tract has been continued d vegetable gardens. The hillsides in the "valley," from which for ye the soil had been stripped for brick making, and which formed such unsightly feature of the prison grounds, being cut up by small guld and ravines in all directions, have been leveled during the year as long the condition of the soil would permit the use of a plow, and in course of another year may be put into such shape as to make their cult vation practicable.

The construction of a levee, thirty feet wide on top, across the tract tide land west of the prison has been commenced, and is rapidly approach ing completion, and when finished will be the means of reclaiming about twenty-five acres of land now covered by tide water.

#### WELL WATER.

Irrigation being necessary for the proper cultivation of the new ground made during the year, and we being dependent for our water supply entirely upon the Marin County Water Company, several wells in the "valley" were cleaned out, and windmills and tanks erected over then and these furnish now a portion of the water required. The sinking of very large well is also under way near the northwest corner of the priso wall, and this shows indications of furnishing a large supply of water when finished. While sinking this well a body of rock was struck, which is of considerable value, as it presents the appearance of a first class built ing stone. Four hundred blocks have been cut and dressed with a view use as quoins in the front building, for which an appropriation was made by the last Legislature.

#### PURCHASE OF LANDS.

An appropriation was also made to purchase adjacent lands at Sa Quentin for the use of the State Prison, and improvements on State land owned by various parties, and the following purchases have been made accordingly:

First—Ninety-five acres of tide lands from assignees of Wm. T. College man, for \$2,500; the deed also including whatever interest they may have in about twenty more acres adjoining.

Second—Houses on State lands, formerly owned by Mrs. Jones, M. Saultry, D. Sutherland, and W. O'Grady, the price paid for all of the aggregating \$1,000.

The purchase of land, to straighten boundary line and for right of will to change county road, has not been effected yet, owing to the land question being in litigation before the United States Supreme Court, and pending a decision, a perfect title cannot be given by the present holder the land.

The two acres of tide land and the houses owned by Mrs. Edwards al., for the purchase of which the sum of \$2,000 was appropriated, are in possession of the owners, who refuse to sell for this sum, it being \$1,5 less than the price at which they offered to sell. The houses owned John Mann and Henry Schlosser have not yet become the property of State, because the owners are not satisfied with the sums appropriated the Legislature for the purchase of the property.

#### THE PRISON RECORDS.

I find the books in the Turnkey's Department have been very badly ing the past year, and quite a large area of land has been converted in kept, the volumes being in a dilapidated condition, needing immediate care, and I have had a clerical force assigned to the task of rewriting the books in compact form; I have also made arrangements to print a reference book, which will do away with the constant use and consequent wear and tear of the bulky volumes. As the work progresses, the necessity for the revision and preservation of the records is made more strikingly apparent.

Accompanying will be found reports from the Turnkey, the Physician, the Chaplains, and the Clerks, which give detailed information as to the condition of the several departments.

Respectfully submitted.

JOHN McCOMB, Warden.

 $2^{12}$ 

# CLERK'S REPORT.

CLERK'S OFFICE, CALIFORNIA STATE PRISON, SAN QUENTIN, CAL., August 28, 1889.

Hon. JOHN McComb, Warden State Prison, San Quentin, California:

DEAR SIR: I have the honor to submit the following report of the financial transactions of this prison during the fortieth fiscal year, ending June 30, 1889. Table No. 1 exhibits the cash received from all sources during the year; Table No. 2, the cash disbursements for the same period; Table No. 3, abstract of the expenses for same period; Table No. 4, cost of maintaining prisoners for same period; Table No. 5, earnings for the fortieth fiscal year; Table No. 6, assets and liabilities.

Very respectfully,

J. V. ELLIS, Clerk.

TABLE No. 1.

Cash Receipts of the State Prison at San Quentin, during the Fortieth Fiscal Year, endin June 30, 1889.

	314	ne 30, 1003.			
Date.	General Appropriation.	State Prison Fund,	Jute Fund.	Jute Mill and Building Fund.	Appropriation for Purchase of Lands.
1888—July August September October November December 1889—January February March April May	*\$22,764 04 †24,505 88 17,247 36 14,364 09 12,924 07 23,184 39 24,949 80 24,057 70 22,684 35 6,433 75	\$3.638 32 10,875 84 26,385 56 12,319 41 10,606 69 339 32 133 01 453 25	\$1,372 25 29,791 00 14,920 00 262 50 7,824 60 8,162 70 112 70	\$75 00	
June	33,464 42	8,764 37			\$3,900 (
Totals	\$226,579 85	\$73,515 77	\$62,445 75	\$75 00	\$3,900 (
DATE.	United States.	Brick Department.	Door Department.	Foundry Department.	Jute Department
August August September October November December 1889—January February March April May June Totals	806 20	\$17 00 10 20	4,708 98 3,932 00 3,323 15 3,219 80 2,500 00 1,176 10	\$0 40  40 4 63 5 93 9 17  \$20 53  Hospital Department.	\$39,269 1 12,750 1 17,208 6 12,008 6 12,008 6 12,008 6 1,047 2 464 6 53,472 1 82,590 1 21,928 3 41,367 6 \$282,045 6 \$\$ took Department
August September October November December 1889—January February March April May June Totals	\$21 00 1 75 3 75 3 75	\$177 87 196 75 189 48 200 36 184 24 210 83 210 24 181 15 201 59 156 67 150 58 148 53 \$2,208 29	\$160 94 132 05 154 35 120 32 144 49 90 02 214 73 196 99 198 62 160 00 152 14 213 25 \$1,937 90	\$22 85 21 70 26 70 33 25 24 00 15 50 18 05 21 30 25 50 14 25 26 80 27 60	\$100 5 96 0 107 5 100 8 101 5 109 5 309 0 105 5 22 5 21 5 19 5

<sup>\*</sup>July, 1888—The amount received from State Treasury out of general appropriation was due from the thirt inth fiscal year, \$22,764 04.
† August, 1888—The amount received from State Treasury out of general appropriation, balance due from a thirty-ninth fiscal year, \$2,815 81.

TABLE No. 1-Continued.

DATE.	Labor Account.	Board and Rent.	Gas and Water.	Miscellaneous.	Total.
Bal. on hand, June 30, 1888					\$34,101 42
1888—July	\$76 75	\$171 10	\$14 10	\$34 85	67.281 11
August	66 50		19 85	*173 51	45,418 05
September	89 50	167 27	18 15		49,764 88
October	71 25	170 94	20 70		73,420 21
November	99 00	160 79	17 60		32,144 10
December	53 00	161 78	34 00	12 76	28,323 48
1889—January		157 38	26 85	8 27	43,863 69
February		156 12	15 00		29,425 24
March.		. 181 88	20 55		89,311 32
April	38 00	71 46	16 60	. 5	115,346 47
May		. 81 03	16 80		29,380 63
June		. 61 71	16 10	5 63	89,015 12
Totals	\$650 40	\$1,704 84	\$236 30	\$235 37	\$726,795 72

<sup>\*</sup>Miscellaneous account-month, August, 1888-This amount consists of one half cost of advertising for supplies received from Folsom State Prison.

TABLE No. 2.

Cash Disbursements of the State Prison at San Quentin, during the Fortieth Fiscal Year, ending June 30, 1889.

DATE.	State Treasury State Prison Fund.	State Treasury Jute Revolving Fund.	Merchandise.	Materials,
1888—July	\$2,401 72		\$11,220 23	*\$1,130 7
' August	31,420 12		14,165 37	<b>†3,161</b> 53
September	16,773 98		15,953 41	<b>‡1,23</b> 2 8:
October	21,000 00		15,309 00	386 8
November	4,699 15		14,771 91	707 33
December	4,876 56		13,772 13	127 20
1889—January	3,379 91		13,225 85	295 70
February	3,864 40		14,821 60	405 1
March	3,466 53		13,415 38	350 7
April	46,429 03		13,898 63	232 2
May	46,780 01		10,000 00	173 7
June	21,768 23		29,599 54	677 1
Totals	\$206,859 64	\$102,445 75	\$170,153 05	\$8,881 1

<sup>\*</sup>July, 1888, material account includes bill of Union Iron Works for labor and material repairing jute mill bollers, \$2,941 99.

† August, 1888, material account includes bill for furniture and carpets for annex of Warden's house, \$1,065 97.

† September, 1888, material account includes bill of Wm. Crabb & Co., Newark, N. J., for "flyers" for jute prepartment, \$774 58.

TABLE No. 2-Continued.

DATE.	Raw Jute, Freight, and In- surance Paid Out Jute Revolv- ing Fuud.	Salaries.	Wages of Department Employés.	Allowance of Officers in Lieu of Boar
1888—July	, , , ,	\$5,883 44 5,630 64 5,709 47 5,830 65	\$2,284 00 2,299 00 2,283 50 2,261 00	\$368 368 347 347
November	14.920 00	5,389 14 5,063 49 5,127 42 5,353 38	2,171 50 2,192 50 2,580 70 2,046 50	325 347 384 378
March April May	7,824 60 8,162 70 112 70	5,478 33 5,025 22 5,197 06	2,121 85 970 00 970 00 970 00	417 291 303
June Totals		5,011 78 \$64,700 02	\$23,150 55	\$4,213 t
. Date.	Allowance Paid to Discharged Prisoners.	Paid for Trans- portation of Prisoners.	Paid on Account Escaped Pris- oners.	Paid on Accoun General Repair
1888—July August September October November December.	\$165 00 170 00 205 00 115 00 195 00 200 00	\$127 90 149 65 148 75 76 45 146 35 129 00	\$10 50 50 00	\$195 9 10 2 85 6 36 5 83 9 27 9
1889—January February March April May June	150 00 150 00 190 00 160 00 155 00 135 00 160 00	99 25 143 00 96 10 105 30	20 00 165 00 8 75	10 17 46 45
Totals	\$2,000 00	\$1,576 90	\$254 25	<b>\$496</b> 89

D <sub>ATE</sub> ,	General Expense, Post- age, Telegraph, Express, etc.		ElectricLights	. Water.	United States
August September October November December 1889—January	\$265 60 194 26 147 49 203 03 209 94 148 76 255 98	\$562 38 489 88 644 45 1,574 55 859 05 924 59	\$165 00 165 00 165 00 175 00 165 00 165 00	\$917 57 1,136 80 1,017 57 915 45 772 80 707 07 632 80	\$20 20 5 90 27 70
February March April May June	123 28 118 18 164 03 58 00 198 99	809 46 637 20 718 40	165 00 165 00 165 00	672 62 642 37 613 35	5 90
Totals	\$2,087 54	\$8,399 53	\$2,000 00	\$9,189 17	\$00

TABLE No. 2—Continued.

DATE.	Insurance.	Advertising.	Freight.	Purchase of Live Stoo	
1888—July		\$97 02	\$463 80		
August	<b>\$36 90</b>		584 92		
September	1,054 75		280 45		
October	87 00		498 96	\$794	81
" November	77 50		616 63	200	00
" December			458 33	[ <u></u>	
1889—January	37 50		187 27		
February			380 75		
March	125 00		408 00	853	13
April			741 85		
May					
June	186 15		1,696 63	400	00
Totals	\$2,058 05	\$97 02	\$6,317 59	\$2,247	94
DATE.	Purchase of Outside Lands, etc.	Expense State Prison Directors.	Miscellaneous.	Total.	•
1888_Tuly			\$3.00	\$58,165	30
1888—July August		\$163 65	. 40 00	71,009	
Sentember		<b>V250</b> 50		46,049	
September October		121 15		77,949	
November				44,119	
December				29,124	
1889—Iannery		66.00	230 00	42,876	
1889—January February		00 00	200 00	30,828	
March		71 00		49,806	
		00	96 00	112,121	
April May	\$200.00		100 00	54,653	
June	•		249 00	64.229	
		—			
Totals	\$200 00	<b>\$421</b> 80	\$678 00	\$680,932	70
Balance on hand June 30, 1889				45,863	
	j		}	\$726,795	72

### TABLE No. 3.

# Abstract of Expenses for the Fortieth Fiscal Year.

Advertising		- \$214 0
Insurance		
Guards' Department		2,304
Hospital Department		2,173 4
Library Department		- 18 8
Stock Department		- 7,311 6
Turnkey's Department		23,257 9
Guards' mess	\$9,634 19	,
Officers' mess	5,243 29	1 3
Prison mess		
Turnkey's mess	4,966 53	
Warden's house current expense	1,383 94	
Allowance to officers in lieu of board	4,135 39	1 4
		- 87,066 87
Salaries		- 64,700 02
State Prison Directors' expense		421 80
General expense		- 3,493 22
General repairs		. 5,621 76
Olerks' offices		_ 267 66
Warden's house, furniture and fixtures		- 47.02
Gas		3,810 82
Electric lights		. 2,000 00
Water	••••	9,198 %
Escaped prisoners		264 25
Discharged prisoners		2,000 00
Transportation of prisoners		1,576 5
Transportation of insane prisoners		. 37 00
Matal amount 6: 43 :		0010000
Total expense for the year	•••••	. \$216,928 25
_ I		

#### TABLE No. 4.

#### Cost of Maintaining Prisoners per Head.

Average number for the year, 1,337%; total cost	\$216,928 26 13 51 44.
Total expense for the year (Table 3)         \$98,674 10           Net earnings of manufacturing departments         \$98,674 10           Support of United States prisoners         3,617 00           Rent of State houses         551 45           Profit on sale of beef in Commissary Department         256 04	\$216,928 26. 103,098 59
Net expense of the prison  Average cost per head per month  Average cost per head per day	\$113,829 67 7 03 23.1

### TABLE No. 5.

#### Earnings, Fortieth Fiscal Year.

Brick Department	\$22 50	
Door Department	1 20.096 98 □	
Jute Department	20,096 98 80,926 86	
Foundry Department	1,020 08	
Total		\$102,066 42
Deduct expenses of Engineer's Department		. \$102,066 42 3,392 32
Not comings of manufacturing descriptions	-	\$98,674 10
Net earnings of manufacturing departments	00.015.00	\$30,074 IV
support of United States prisoners	\$3,617.00	
Rent of State houses	551 45	
Commissary Department, profit on beef sales	256 04	
		4,424 49
Martin and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	-	#100 000 FO
Total earnings for the year		<b>\$103,098</b> 59

#### TABLE No. 6.

#### Assets and Liabilities.

1130000 that Detroppedes,		
Assets.		
Buildings, gas and water mains	\$464,884 78	
Buildings, gas and water mains	41,278 50	
Reservoirs	31.278 55	
Brick Department	7.162 90	
Engineer's Department, machinery	35,250 00	
Engineer's Department, Stock and tools	1.018 43	'
Furniture Department	14,502 07	
Foundry Department	8.213 47	
Jute Department, machinery and equipment	249.385 69	
Jute Department, stock, fabrics, etc.	26,792 84	
Guards' Department	11,453 71	
Guards' Department. Commissary Department, property	471 93	
Commissary Department, stock	3,512 21	
Turnkey's Department	31,817 58	
Hospital Department	1,183 11	
Library Department	947 10	
Stock Department	10.557 48	i
Clerks' offices	1,204 63	
Warden's house, furniture and fixtures	6,356 62	
		\$947,271 60
Guards' mess	<b>\$</b> 516 <b>3</b> 4	
Officers' mess	343 41	
Prison mess	1,694 16	
Turnkey's mess	428 59	
		2,982 50
Due from the United States	<b>\$1,133</b> 50	•
Due from sundry debtors	3,800 89	
Cash in State Prison Fund	168,923 66	
Cash balance on hand	45,863 02	
		219,721 07
Total assets June 30, 1889		\$1,169,975 17
ī. •		Ψ2,200,010 21
Liabilities.		
Unpaid bills for merchandise, etc., month of June	\$20,811 18	
Unpaid salaries of officers and guards, month of June	5.170 00	
Unpaid wages of department employes, mouth of June	970 00	
Total liabilities June 30, 1889		26,951 18
· ·		20,301 18
Excess of assets		\$1,143,023 99

# TURNKEY'S REPORT.

SAN QUENTIN, August 1, 1889.

Gen. John McComb, Warden of California State Prison, San Quentin:

Sir: I herewith submit my tabulated reports of the Turnkey's Department for the fiscal year ending June 30, 1889.

Very respectfully,

B. DOUGHERTY, Turnkey.

TABLE No. 1.

Recapitulation of Received and Discharged Prisoners, from July 1, 1888, to June 30, 1889.

	H	h-	1 1	1	7 =	1	7	7					•
• Month.	By Commitment	oners	Returned Convict Witnesses	Escapes Recaptured	of Court	Pardon Revoked	Returned from Insane Asylum_	Total Received		Discharged per Act and Re-	Discharged per Act	U. S. Prisoners Discharged	Taken out for a New Trial
August	21 23 34 29 29 45 43 51 47 49 42 35	1 5	1 2 1 1 6	1	1 5 2 1 1 1 3 1 15	1	1 1 2	229 299 35 32 33 45 48 55 49 53 43 36 480		6 10 5 5 8 9 17 17 10 9 14 8	27 24 37 19 30 24 11 19 17 22 11 22	1	1
Month.	Taken out as a Witness	Conditionally Pardoned	Pardoned by the Governor	Pardoned by the President	preme Court	Order of 8		Escaped	Suicided	Died	Taken to Insane Asylum	Total Discharged	at Close of Each Month
1888-July August September October November December 1889-January February March April May June Totals	1 2	1 1	1 .1 6 1 2 1	1	2	1	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	2 2 3 6 4 4 2 2 1 2 3	1	51 43 44 31 47 47 40 43 35 36 31 36	1,34 1,32 1,32 1,32 1,312 1,310 1,318 1,330 1,34 1,36 1,373 1,373

#### TABLE No. 1-Continued.

Recapitulation of Received and Discharged Prisoners, from July 1, 1888, to June 30, 1889.

Number of prisoners on hand June 30, 1888.  Number of prisoners received by commitment  Number of United States prisoners received  Returned convict witnesses  Escapes recaptured  Pardon revoked  Prisoners remanded by order of Court  Prisoners returned from Insane Asylum	6 3 1	1,377
Total		1,857
Discharged per Act and restored Discharged per Act United States prisoners discharged Taken out for new trial Taken out on writ of habeas corpus Taken out as witnesses Conditionally pardoned Pardoned by the Governor Pardoned by the President Discharged on order of Supreme Court Discharged on order of Supreme Court Transferred to Folsom Escaped Suicided Died Sent to Insane Asylum	3 2 17 6 2 16 1 2 3	
*. - X	<del></del>	484
Number of prisoners on hand June 30, 1889 Decrease for the fiscal year		1,373 4
	- 1	

30

TABLE No. 2. Prisoners Received, and on what Day of the Month, from July 1, 1888, to June 30, 1889.

TABLE No. 3.

			18	88.					18	89.			Total				1888	3.					188	89.			Total
DAY OF MONTH.	July	Angust	September.	October	November_	December -	January	February	March	April	Мау	June		DAY OF MONTH.	July	August	September_	October	November.	December_	Јапиагу	February	March	April	Мау	June	
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Thirteenth Fourteenth Fifteenth Sixteenth Sixteenth Sixteenth Twenty-first Twenty-first Twenty-first Twenty-sixth Twenty-sixth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-sighth Thirtieth Thirtieth Thirtieth Thirty-first	3 2 2 1 1 2 1 	1 1 1 2 2 2 3 2 2 1 1 1 1 1 1 1 1 1 1 1	2 2 3 1 1 1 1 4 4 1 1 1 1 5 5 3 3 3 3 3 5 5 5 5 6 6 6 6 6 6 6 6 6	2 2 1 1 1 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 1 1 2 2 4 3 2 2 2 1 4 1 3 3 2 2 2	3 2 2 2 2 1 1 1 2 2 1 2 1 2 1 2 1 2 1 2	2 2 2 1 1 4 2 1 1 1 1 1 1 3 2 2 3 3 4 4 2 2 3 3	3 2 2 2 3 3 2 2 1 1 3 3 2 2 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 2 3 6 6 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 4 1 1 6 2 2 1 1 3 3 4 3 3 1 1 1 1 1 1 1 1 3 1 1 1 1	3 1 1 2 2 3 3 3 2 2 1 1 1 2 3 3 1 1 1 5 5 1 1 4 4 3 4 4 4 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6	1 2 3 1 2 1 1 1 1 1 2 3 3 3 1 1 1 1 3 3 1 3 1		First Second Third Fourth Fith Sixth Seventh Sixth Seventh Tighth Kinth Tenth Seventh Twelfth Thirteenth Fourteenth Fitteenth Sixteenth Seventeenth Twentieth Twenty-first Twenty-second Twenty-first Twenty-first Twenty-fifth Twenty-fifth Twenty-fighth Twenty-sixth Twenty-seyenth Twenty-sixth Twenty-sixth Twenty-sighth Twenty-sighth Twenty-sighth Twenty-ninth Twenty-ninth Thirty-first Totals	2 1 1 1 3 5 2 1 1 1 2 2	1 1 1 1 1 5 2 2 3 1	2 1 4 3 4 1 1 1 1 1 3 3 1 1 1 2 1 2 1 2 1	1 3 3 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 1 2 1 1 1 2 2 1 1 2 1 2 1 2 1 2	1 1 1 4 4 2 1 2 1 1 1 1 2 1 1 1 2 1 1 1 4 4 4 1 1 1 1	22	1 1 1 2 1 1 1 3 2 2 1 1 1 2 2 2 1 1 1 1	3 1 2 3 3 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2	1 1 2 3 3 	1 2 2 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 3 3 1	1 2 1 1 1 1 2 1 2 1 1 1 1 5 5 1 1 2 2 1 2 2 2 3 3 6	11 18 11 23 12 12 13 16 17 15 12 11 13 16 17 15 12 18 19 11 13 16 17 16 17 16 17 17 17 18 19 19 11 11 11 11 11 11 11 11
Totals	22	29	35	32	33	45	<b>4</b> 8	55	49	53	43	30	*20%		1 3			l		<u> </u>	1			l			

## TABLE No. 4.

## TABLE No. 5. Classification of Crime.

United States.	Number.	Foreign.	Numb
Alaska Territory	3	American waters	
Arkansas	4	At sea	ı
Arizona Territory	2	Austria	٠.
Alabama	2	Australia	1
California	300 \	Belgium	
Connecticut	5	British Columbia	1
Colorado	4	Canada	١.
District of Columbia	1	China	l
Florida		Chili	
Georgia	. 4	Cuba	
Illinois	43	Denmark	ł
Indiana		England	
Iowa	. 18	East Indies	
Kentucky	. 16	France	
Kansas		Finland	
Louisiana		Germany	
Massachusetts		Ireland	ĺ
Missouri		Italy	
Maryland		Isle of Man	
Maine	. 10	Japan	
Michigan	.] 10	Lower California	ł
Montana		Mexico	
Minnesota		Nova Scotia	l
Mississippi		New Brunswick	
New York	131	Portugal	
New Hampshire	2	Poland	1
New Jersey	5	Russia	1
Nevada		Sweden and Norway	
Nebraska		Switzerland	ļ
North Carolina	2	Scotland	
Ohio	33	Sicily	1
Oregon		Sandwich Islands	
Pennsylvania		South Wales	
Rhode Island	6	West Indies	
South Carolina		Wales	'
Tennessee	11		
Texas	. 3	Total	
Utah	1	RECAPITULATION.	
Vermont	3		Ì
Virginia	17	United States	
West Virginia	1	Foreign	
Wisconsin	13	Total	1,
Total	839	Total	"

Свіме.	Number	CRIME.	Number.
	<u> </u>		
Arson	1 1		$\frac{2}{1}$
Arson, first degree	2 8		i
Arson, second degree, and grand	ľ	Burglary, second degree, and arson,	-
larceny	1		2
Abduction for purposes of prostitu-	_	Crime against nature	$\bar{6}$
tion	2	Embezzlement	9
Administering poison with intent		Forgery	46
to Kill	1	Felony	47
Assault to murder	38	Felony and prior	2
Assault to murder and prior	2	Felony, to wit: robbery	1 1
Assault to murder, assault to rob Assault to murder and robbery	$\begin{array}{c c} & 1 \\ & 2 \end{array}$	Felony (three commitments) Felony, and burglary, first degree.	i
Assault to murder (two commit-		Grand larceny	204
ments)	3	Grand larceny (two commitments).	202
Assault intent to commit murder	8	Grand larceny, second offense	ī
Assault with means and force likely		Grand larceny, burglary, second	
to produce great bodily injury	5	degree, and escape	1
Assault to rape.	16	Grand farceny and prior	8
Assault to rape and prior	1	Grand larceny (three commit-	_
Assault with intent to commit rape.	3	ments)	Ţ
Assault to rob	20 1	Grand larceny, five priors	1
Assault to rob and prior	30	Grand larceny, assault to murder Grand larceny; burglary, first de-	
Assault with deadly weapon (two	00	gree, and arson, second degree	
commitments)	. 1	(four commitments)	1
Assault with deadly weapon and	_	Incest	2
₹2 000 fine	1		2 2
Assault with deadly weapon and		Illegal voting	2
, \$000 Ane	2	Larceny	2
Assault with deadly weapon, and		Larceny (two commitments)	1
burglary, first degree	.1	Malicious mischief	$\begin{array}{c} 1 \\ 2 \end{array}$
Assault with deadly weapon and	2	Mayhem and resisting an officer	í
assault to rob		Mayhem and assault with a deadly	1
intent to murder	1	Weapon	1
Assault with deadly weapon with	-	weapon	$6\overline{7}$
intent to kill	1	Murder	13
Assisting prisoners to escape	1	Murder, first degree	95
Attempt at grand larceny	3	Murder, second degree	100
Attempt at burglary	3	Mingling poison with food	1
Attempt at burglary (two commit-		Passing counterfeit money	. 2
ments)	1 3	Perjury	5 2
Attempt at burglary, first degree	3	Petit larceny and priors Petit larceny and prior felony	í
Attempt at burglary and prior	3	Petit larceny and prior lelony	17
ond degrees	1	Petit larceny and prior petit lar-	
Attempt at robbery	$\overline{4}$	ceny	1
Attempt at arson, first degree	1	Rape	14
Attempt at arson, second degree	1	Robbery	111
Attempt to bribe	. 2	Robbery (two commitments)	
Attempt to commit rape	1	Robbery and escape	2
Bigamy and \$300 fine	1	Robbery and assault with deadly	1
Buggery Bridge burning	3 1	Robbery (three commitments)	3
Rundany	81	Robbery, four priors	ĭ
BurglaryBurglary (two commitments)	3	Robbery and prior petit	4
Burglary and felony	ĭ	Robbery of United States mail	$\hat{m{2}}$
Burglary and prior petit	1 /	Robbery and burglary	1
Burglary first degree	132	Robbery and injuring jail	1
Burglary, first degree, and prior	4	Receiving stolen goods	1
purglary, nest degree, and prior petit.	1	Receiving a bribe	1
Burglary, first degree, and escape.	1	Subornation of perjury.	1
Burglary, first degree, and assault		Smuggling	1
with a deadly weapon	151	Selling land twice	1
Burglary, second degree	154	Selling liquor to Indians	1
mitments)	6	Total 1,	373
	١	1,0	010
012			
312			

#### TABLE No. 6.

#### Terms of Imprisonment.

TERM.	Number.	Term.	Number
One third year One half year Two thirds year Three fourths year. One year One and one twelfth years One and one sixth years One and one fourth years One and one half years One and three quarters years One and three quarters years Two and one half years Two and one half years Two and one half years Two and one half years Three and one quarter years Three and one half years Three years Three years Three years Three six and one half years Four years Four years Six years Six and one sixth years Six and one half years Six years Six and one half years Six years Six and one half years Six years Six and one half years Six years Six and one half years Seven years Eight years Eight years Ten years	2 2 2 15 1 1 127 1 222 1 1 200 2 48 81 1 3 81 1 16 1 16 1 16 1 16 1 16 1 1	Thirteen years Thirteen and ten twelfths years Fourteen years Fifteen years Fifteen years Fifteen years Sixteen years Seventeen years Eighteen years Nineteen years Twenty years Twenty-one years Twenty-two and one half years Twenty-three years Twenty-four years Twenty-four years Twenty-seven years Twenty-eight years Twenty-nine years Thirty years Thirty-two years Thirty-three years Thirty-four years Thirty-four years Thirty-five years Thirty-five years Thirty-five years Thirty-six years Forty years Forty years Forty years Fifty years Life-timers Total	
Eleven years	22	10tat	1,0

#### TABLE No. 7.

#### Number of Prisoners from each County.

County.	Number.	County.	Number.
Alameda Amador Butte Calaveras Contra Costa Colusa Del Norte El Dorado Fresno Humboldt Inyo Lake	65 6 28 7 15 11 2 3 35 13 36 9	San Bernardino San Diego San Joaquin San Luis Obispo San Mateo Santa Barbara Santa Clara Santa Cruz Shasta Sierra Siskiyou Solano Sonoma	26 56 56 1 20 11
Los Angeles Marin Mendocino Mariposa Merced Mono Monterey Modoc Nevada Napa Placer Plumas Sacramento San Francisco San Benito	138 8 16 8 23 3 25 3 10 14 15 1 28 412	Stanislaus Sutter San Francisco and Marin Sonoma and Marin Tehama Trinity Tulare Tuolumne Ventura Yolo Yuba Alaska Territory Arizona Territory Total	1 16 2 19 14 15 4

#### TABLE No. 7—Continued.

#### Number of Terms.

<b>2</b>	
Prisoners serving their first term	1.082
Prisoners serving their first term	169
Prisoners serving their third term	76
Prisoners serving their fourth term	
Prisoners serving their fifth term	
Prisoners serving their sixth term	
Prisoners serving their seventh term	2
Prisoners serving their eighth term	<b>2</b>
Total	1 272

## TABLE No. 8.

#### Age of Prisoners.

Agr. ·	Number.	Age.	Number
Twelve	1	Forty-four	
Fourteen		Forty-five	l l
Fifteen	5	Forty-six	20
Sixteen	7	Forty-seven	11
Seventeen		Forty-eight	18
Eighteen		Forty-nine	2
Nineteen		Fifty	1
Twenty		Fifty-one	1 19
Twenty-one	42	Fifty-two	1
Twenty-two		Fifty-three	1
Twenty-three		Fifty-four	1
Twenty-four	66	Fifty-five	
Twenty-five	57	Fifty-six	1
Twenty-six	49	Fifty-seven	
Twenty-seven	68	Fifty-eight	,
Twenty-eight		Fifty-nine	
Twenty-nine		Sixty	
Thirty		Sixty-one	
Thirty-one	41	Sixty-two.	
Thirty-two	40	Sixty-three	
Thirty-three		Sixty-four	g
Thirty-four	36	Sixty-five	9
Thirty-five	48	Sixty-six	í
Thirty-six	28	Sixty-seven	9
Thirty-seven	43	Sixty-eight	9
Thirty-eight	28	Sixty-nine	ī
Chirty-nine	23 ∥	Seventy-one	î
Forty	21	Seventy-four	ī
Forty-one	23		
Forty-two	27	Total	1,373
Forty-three	15		_,,,,,

#### TABLE No. 8-Continued.

#### Educational Abilities of Prisoners.

Read and write	1.080	ı.
Read and cannot write	55	
Neither read nor write	238	
		. 2
Total	1.373	i

## TABLE No. 9.

#### Occupation of Prisoners when Received.

Occupation.	Number.	Occupation	Number
malgamator	1	Ironer.	
aker	10	Interpreter	
ookkeeper	12	Indian doctor	
arkeeper	10	Journalist	
arber	25 25	Lithographer	99
lacksmith		Laborer	33
utcher	18	Milliner	
rickmason	2 2	Molder	4
roommaker	10	Miner	4
oilermaker		Marble cutter	1
rakesman	4	Machinist	
olt cutter	1 1	Merchant	
latler		Mattressmaker	
uttonmaker	$\begin{vmatrix} & \frac{1}{2} \end{vmatrix}$	Millwright	
oxmakerlockmaker	ĺ	Messenger boy	
oatman	2	Printer	1
	3	Plasterer	
rewerootblack	1	Plumber	:
ookbinder	î	Policeman	3
alico printer	1	Painter	1
ook	105	Physician	1
arver	4	Porter	
arpenter	32	Photographer	:
garmaker	29	Polisher	
erk	28	Pianomaker	
binetmaker	5	Quarryman	
oper	2	Railroad employé	10
ach driver	2 2	Rigger	
vil engineer	ī	Ship carpenter	
rriagemaker	ī	Saloonkeeper	
rriage painter	ĩ	Sashmaker	
ackermaker	1 1	Sailor	4.
airmaker	ī∥	Solicitor	
onfectioner	$\bar{1}$	Storekeeper	-
ompositor	1	Servant	
otton classer	1	Schoolmaster	
omestic	16	Stock raiser	4
ecorator	1	Saddletreemaker	1
airyman	2	Saddletree coverer	
ruggist	$\ddot{2}$	Ship caulker	
riller	1	Steward	_ :
ver	1	Stonecutter	
entist	2	Stevedore	(
ngraver	2	Salesman	
ngineer	17	Spinner	
fectrician	2	Shoemaker	28
ectro plater	1	Stage driver	-
ırmer	50	Special officer	:
sherman	10	Soldier	
orist	3	Sailmaker	
reman	8	Teamster	4
rniture polisher	1	Tailor	
undryman	3	Tinsmith	
er and sawyer	5	Tanner	
rdener	4	Trader	
sfitter	2	Upholsterer	
ass blower	1	Vaquero	3
vemaker	2	Washman	7
rnessmaker	14	Weaver	
ostler	25	Wheelwright	
onsewife	1	Waiter	- 3
erder	2	Wood turner	
Orse trainer	3	Washerwoman	
orse shoer	5	Watchmaker	:
unter	1	·	
atter	1	Total	1,37
ickman	2		
		1	

#### TABLE No. 10.

Statistics of Environments as Compiled from the Statements of Prisoners. Details of their Habit Relation, and Conditions prior to their Arrest and Conviction, and the Causes that led thereto

	Number.		Nu
Color.		Religious Denominations.	
White	1,166	Catholic (Roman)	
Black	28	Catholic (Greek)	
Indian	25	Baptist	l
Mongolian (Chinese)	145	Episcopalian	
Mongolian (Japanesé)	. 2	Lutheran	1
Indo-Caucasian	2	Methodist	1
Mulatto	. 7	Presbyteriau	1
70 · 4 · 1	1.050	Universalist	
Total	1,373	Hebrew	
Residence.		Mormon	1
nestaence.		Pagan	
Residents of State	760	Tirengrous	_
Non-residents of State (land)	570	Total	
Non-residents of State (sea)	43		-
2.01. 1001401100 01 01400 (004)		Conjugal Relation.	
Total	1,373	Married	l
		Married and separate	ĺ
Moral Relations.	'	Widowed	
	1	Widowed	1
Intemperate	658		-
Moderate	45	Total	
Temperate	60	Social Relations.	
Opium users	610		ŀ
		Parents living	
Total	1,373	Parents dead	
77.3 7		Father living	
${\it Educational}.$	{ i	Mother living	ŀ
Road write and sinhar (Fnelish)	660	No knowledge of parents	
Read, write, and cipher (English) Read and write (English)	100	Total	-
Read only (English)	30		
Read and write (English and foreign)		Age when Parents Died.	l
Read only (foreign)	199	Under 10 years when father died	ŀ
Read only (foreign)	25	Over 10 years when father died	l
Illiterate	238	Over 18 years when father died	-
		Under 10 years when mother died.	ļ
Total	1,373	Over 10 years when mother died	
		Over 18 years when mother died	
School.		Parents that are not dead	
		No knowledge of death of parents.	ŀ
Public school	940		
Private school	103	Total	
College	40 79	Soldiers or Sailors,	
No school	211	Sanual in United States Amour	
110 8011001	211	Served in United States Army Served in United States Navy	
Total.	1,373	Served in Confederate Army	
	1,010	Served in Confederate Navy	
Attending Church.		Served in State Militia	1
•	1 1	Served in German Army	
Regular	.\ 535	Served in German Navv	}
Irregular	467	Served in English Army	.]
Never	. 371	Served in English Army Served in English Navy	
m		Served in French Army	
Total	1,373	Served in French Navy	1
4. 0 3 01 . 7		Served in Italian Army	1
At Sunday School.		Served in Italian Navy	
Domilar	505	Served in Mexican Army	1
Regular	535	Served in other foreign armies and	
Irregular Never	467 371	navies Served in no branch of service	
ATOYOL seepseemans can promound sees	3/1	perved in no branch of service	<b> </b>
Total	1,373	Total	
	., 1,010	11	

#### TABLE No. 10-Continued.

	Number.		Number.
How Crime was Committed.		For miscellaneous crimes	\$25,000
Alone	911	For transportation	23,000
AloneWith accomplices	462	Total	\$614,100
Total	1,373	Causes of Crime.	434
Where Living when Crime was Committed.		Crime caused by liquor Crime caused by destitution Crime caused by bad associates Crime caused by sudden im-	160 550
Living in city Living in town	450 101	pulses Crime caused by ignorance Crime caused by wrong inflicted	98 78
Living in town Living in country Wandering from place to place	215 607	(real or imaginary)	19
Total	1,373		40
Time of Committing Crime.		Total	1,373
By night	560	Professional oriminal	250
By day	813	Destitution	70 290
Total	1,373	Opium	540
Place of Committing Crime.		Destitution Liquor Opium Women Uncontrollable impulses	70 25
Houses of business (mercantile).	119	Ignorance Bestial passions	70 30
Houses of business (monetary)	21	Resisting	12
Private residences	271 195	Gambling	16
Highways (railroad and stage r'tes) Highways (common roads, etc.)	104 52	Total	1,378
Saloons	269	Industrial Relations.	***
Miscellaneous places	342	Trades (multiple)	127 690
Total	1,373	Trades (single)  Knowledge of trade	110 295
Estimated Amount of Property Stolen.		No trade (laborer) No trade (vagrant) Professions	123 28
By forgeries By burglaries By robberies	\$54,000 99,000	Total	1,373
By burgiaries	99,000 55,000	Plea.	
by raise representations	1,300	Pleaded guiltyPleaded not guilty	703 · 670
By false claims By larcenies (grand)	1,700 70,000		
By larcenies (petit)	500 1,700	Total	1,373
Total	\$283,200	Pleaded guilty because had nei-	
Estimated Damage Inflicted.		ther friends nor money Pleaded guilty to save disgrace	227
	<b>604 000</b>	of friendsPleaded guilty through igno-	15
By arson By burglarious operations.	\$24,000 69,000	rance of the law	55
Miscellaneous	23,000	Pleaded guilty in order to miti- gate the penalty	250
Total	\$116,000	Pleaded guilty because of prior conviction	120
Estimated Cost of Conviction and Transportation.	•	Pleaded guilty to avoid prosecu- tion for other crimes	30
For murder	\$274,000	Pleaded guilty to murder Pleaded not guilty to murder	$\frac{6}{249}$
For burglary	143,174	Pleaded not guilty to assault to	
For assault to murder	7,826 44,000	murderPleaded not guilty because had money and friends	40
or assault with deadly weapon	1,100 87,000	l -	381
for rape and assaults to rape	9,000	Total	1,37 <b>3</b>

TABLE No. 10-Continued.

	Number.		Number
Ability to Gain Livelihood.  Can earn \$200 per month Can earn \$190 per month Can earn \$180 per month Can earn \$170 per month Can earn \$160 per month Can earn \$140 per month Can earn \$120 per month Can earn \$100 per month Can earn \$100 per month Can earn \$90 per month Can earn \$90 per month	4 6 12 35 65	Can earn \$70 per month Can earn \$60 per month Can earn \$50 per month Can earn \$50 per month Can earn \$30 per month Can earn \$30 per month Can earn \$20 per month Can earn \$10 per month Can earn \$5 per month Can earn \$5 per month Can earn \$5 per month Toan earn \$0 per month A burden to the State	99 100 130 120 150 240 103 60 40 50

#### TABLE No. 11.

From what Counties Committed, and in what Year.

21010 401					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		• •	,		,	,
Counties.	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880
Al-mada										1				
Alameda									1				i	
Amador						•					••••	i	i	
												i	- 1	
Calaveras					••••	• • • • •						•		
Contra Costa	î				••••					•	1		•	
Del Norte	1										1			
El Dorado													i	
Fresno													1	
Humboldt					• • • •					1				
Invo								••••						1
Kern														
Lake														1
Los Angeles												1	1	
Marin	[										1			
Mendocino														
Mariposa.														
Merced														
Mono														
Monterey							<b>-</b> -						1	
Modoc														
Nevada										- <b>-</b>		1		1
Napa														
Placer								1	1					1
Plumas												1		
Sacramento						1		1						1
San Francisco						1			2	2		1	2	4
San Benito												:-		:
San Bernardino												1		2
San Diego						1			- <b></b> -					1
San Joaquin								ł .					1	
San Luis Obispo						- <b>-</b>								
San Mateo									1				1	
Santa Clara									1		1		1	
Santa Cruz				<b>-</b> -							1 *			
Shasta										ī		ī		
Sierra										-				
Siskiyou														1
Solano														
Sonoma														. 1
Stanislaus				:		<b></b> .								
Sutter		<b></b> .												
San Francisco and Marin								l	l					
Sonoma and Marin				<i>-</i>									1	
Tehama					- <b></b> -					1			1	
Trinity									- <b></b> -					
Tulare					- <b></b> -					1				
Tuolumne				<b> </b> -										
Ventura												• • • •		
Yolo											1			
Yuba														
Alaska Territory														
Arizona Territory														
Totals	1					3	l	2	5	7	4	8	12	14
i .	1					۱	1	~	ľ	Ι΄.	1 ^	ľ		*
<u> </u>	<u></u>	٠	<u>-</u>	<u>.                                    </u>					<u>'                                    </u>	<u></u>	<del>!</del>	<u>'</u>		<u>, , , , , , , , , , , , , , , , , , , </u>

TABLE No. 11—Continued.

Counties.	1881	1882	1883	1884	1885	1886	1887	1888	1889	Total
AlamedaAmador	1		2	2	2	. 1	1	7	21	6
Butte				. 2	3	2		2	14	92
Calaveras				. 1	2		$-\begin{vmatrix} 2\\2 \end{vmatrix}$		. 1	-
Colusa	1			. 1	2	2	2	2	1	1 1
Contra Costa			1	1	) 4			.] 1	6	1 7
Del Norte			1					.   - <b></b>	.	1 3
El Dorado				.] 1		. 1		.] <i></i>		. 3
Fresno	1	2	2	5	4	· 6	6	7	2	3
Humboldt						. 3	3	2	4	1
Inyo				. 1	1					
Kern	1		1	2		_ 2	1	3	16	9
Lake			1	1	1	1	2		. 2	
Los Angeles	3	2	1	3	6	15	22	21	63	13
Marin			1	]	. 2	1	1		. 2	
Mendocino	1			1		. 6		1	7	1
Mariposa					. 2	1	4		1	
Merced			2	2	1	4	8	2	4	1
Mono					1	2		1		
Monterey	1	1		2	3	<b>j</b> 4	2	1	10	2
Modoc				1	1	1				
Nevada						. 3	2		3	103
Napa		1	2	2			. 1	1	7	10
Placer	4	1	- <i></i> -			. 1	1	2	4	15
Plumas								1		[ ]
Sacramento		2	2	3	2	6	5	2	3	20
San Francisco	3	9	12	11	43	58	117	44	103	412
San Benito				1		1			3	51
San Bernardino				4	1	7	15	9	24	63
San Diego	1	. <b></b> .	1	1	1		12	13	17	48
					3	7	10	6	16	43
San Luis Obispo		1				1	3	1	9	15
San Mateo			1			l	1	1	2	5.
Santa Barbara				3	2	4	. <b></b>	6	9	26
Santa Clara		1	. <b></b> -	1	6	7	16	6	18	56
Santa Cruz					. <b></b>				1	13
Shasta		2		1	1		1	1	12	20
Sierra			3	2	3		2	1		113
Siskiyou					3	3	1		4	12
Solano			1		1	·	4		8	14
Sonoma		2	2	3	2	4	2	1	11	28
Stanislaus	1	1	1		1	1		1	3	9
Sutter									2	4
San Francisco and Marin.	1	1		1		. <b></b>				3
Sonoma and Marin										13
Tehama	2				2		1	3	6	16
Trinity				1	1	l. <b></b>				93
Tulare	3			1			9		5	197
Tuolumne	1	1	1	1	2	2	4	1	1	149
Ventura	ī	1	1			ī	1	4	4	13
Yolo						l	$\tilde{2}$		ī	Į.
							ī		8	93
Alaska Territory							[]		5	6
									2	24
Totals	26	- 28	40	62	108	168	286	153	446	1,375
	1		j			i ,			- 1	

TABLE No. 12.

Industrial and Criminal Life of Prisoners.

_		3	TEARS	Passei	IN I	NDUSTR	IAL P	URSUIT	8.		Total
Years Passed in Criminal Pursuits.	1 to 2	2 to 4	4 to 6	6 to 8	8 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	
Twenty-five to thirty Twenty to twenty-five				1	4	3	1	1			10
Twenty to twenty-five				2	6	4	2	3	2		19
Rifteen to twenty	9	7	4	8	2	10	13	15	2		70
Ten to fifteen	11	8	7	2	11	13	14	2	1		69
Eight to ten	13	7	19	5	17	15	21	11			108
Seven to eight	11	4	9	5	15	2	4	1	2	2	55
Six to seven	15	3	7	4	13	1	2	3	2	1	51
Five to six	7	8	11	3	12	9	10	8	1		69
Four to five	4	3	7	9	7	11	8	7	2		58
Three to four	20	9	7	4	9	16	8	3	5		81
Two to three	16	40	39	25	30	56	43	41	15	4	309
One to two	61	45	61	60	46	75	55	45	17	9	474
Totals	167	134	171	128	172	215	181	140	49	16	1,373

TABLE No. 13.

Terms Served in State Prisons and other Public Institutions.

Served two terms in Folsom						<del></del>	<del></del> '
Served one term in Folsom		Term entin, by m Folson	First Term in San Quentin, by Original Commitment, Served one Term at Folsom	First Term in San Quentin, by Original Commitment	Term tin, by mitmen	Term ntin, by amitmen	Quentin, by Original Commitment
Served none term in other State Penitentiaries	Served one term in Folsom				4		
Served four terms in San Francisco   13   2   50   5   1	tentiaries						
Served three terms in San Francisco House of Correction	Served four terms in San Francisco		Ì	***		}	
Served two terms in San Francisco House of Correction Served one term in San Francisco House of Correction Served in San Francisco Industrial School Served in San Francisco Industrial School Served in One or more County Jails Served in Order Prisons Served in Other Prisons Served in Other Prisons Served two terms in Folsom Served two terms in Folsom Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Francisco Industrial Served in San Quentin committed  4 7 2 2 2	Served three terms in San Francisco		-		1	-	
Served one term in San Francisco House of Correction Served in San Francisco Industrial School Served in San Francisco Industrial School Served in Insane Asylum Only to San Quentin committed  Terms Served in Other Prisons than San Quentin.  Terms Served in Other Prisons than San Quentin.  Terms Served two terms in Folsom Served two terms in Folsom Served two terms in other State Penitentiaries Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Grancisco Industrial School Served in San Francisco Industrial School Served in San Francisco Industrial School Served in San Grancisco Industrial Served in San Grancisco Industrial Served in San Quentin committed  4 7 2 2 2	Served two terms in San Francisco	1					
Served in San Francisco Industrial School School Served in one or more County Jails Been incarcerated in Insane Asylum Only to San Quentin committed  Terms Served in Other Prisons Than San Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Quentin Q	Served one term in San Francisco					-	
School	House of Correction						
Been incarcerated in Insane Asylum Only to San Quentin committed  Totals  106  48  870  169  71  Totals  106  48  870  169  71  Totals  Terms Served in Other Prisons than San Prancisco House of Correction Served two terms in San Francisco House of Correction Served in San Francisco Industrial School Screed in One or more County Jails Served in one or more County Jails Served in one or more County Jails Served in One or Quentin Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin In Countin I	School	12			21	7	
Totals 106 48 870 169 71  Terms Served in Other Prisons than San Quentin, Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill Term of Countill	Been incarcerated in Insane Asylum			4	2	2	
Served two terms in Folsom Served one term in Folsom Served two terms in other State Penitentiaries Served four terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction Served in San Francisco House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Correction House of Corr	Totals	106	48	870	169	71	
Served one term in Folsom		Term ntin, by nmitmen	Sixth Term in San Quentin, by Original Commitment	Seventh Term in San Quentin, by Original Commitment	Eighth Term in San Quentin, by Original Commitment	First Term in San Quen- tin by Transfer from Folsom, has Served Terms in other Prisons	Total
Served two terms in other State Penitentiaries Served one term in other State Penitentiaries Served four terms in San Francisco House of Correction Served three terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served one term in San Francisco House of Correction Served in San Francisco Industrial School Served in one or more County Jails Been incarcerated in Insane Asylum Only to San Quentin committed  4 7 2 2							
Served one term in other State Penitentiaries Served four terms in San Francisco House of Correction	Served two terms in other State Peni-					25	
Served four terms in San Francisco House of Correction.  Served three terms in San Francisco House of Correction.  Served two terms in San Francisco House of Correction.  Served one term in San Francisco House of Correction.  Served in San Francisco Industrial School.  Served in one or more County Jails.  Been incarcerated in Insane Asylum Only to San Quentin committed.  2  2  3  4  7  2  3  2  4  7  2  3  4  7  2  3  4  7  2  4  7  2  4  7  3  4  7  4  7  8  8  8  8  8  8  8  8  8  8  8  8	Served one term in other State Peni-						
Served three terms in San Francisco House of Correction Served two terms in San Francisco House of Correction Served one term in San Francisco House of Correction Served in San Francisco Industrial School Served in one or more County Jails Been incarcerated in Insane Asylum Only to San Quentin committed.  4 7 2 2	Served four terms in San Francisco					9	1
Served two terms in San Francisco House of Correction Served one term in San Francisco House of Correction Served in San Francisco Industrial School School Served in one or more County Jails Been incarcerated in Insane Asylum Only to San Quentin committed  4 7 2 2	Served three terms in San Francisco						] .
Served one term in Sau Francisco House of Correction Served in San Francisco Industrial School Served in one or more County Jails Been incarcerated in Insane Asylum Only to San Quentin committed  4 7 2 2	Served two terms in San Francisco						
Served in San Francisco Industrial School School Served in one or more County Jails Been incarcerated in Insane Asylum Only to San Quentin committed 4 7 2 2	Served one term in San Francisco House of Correction						1
Served in one or more County Jails	Served in San Francisco Industrial					19	3
Only to San Quentin committed 4 7 2 2	Served in one or more County Jails						3
Totals 4 7 9 9 64			7	2	2		-3
1 2 2	Totals	4	7	2	2	64	1,8

#### TABLE No. 14.

griving the Number of Prisoners in the State Prison at San Quentin, June 30, 1889, under Commitment for Murder, in what Year Committed, and from what Counties.

Counties.	1876	1878.	1879.	1881.	1884.	1885.	1886.	1887.	1888.	1889.	Total.
Butte					1	1	1				]
ColusaContra Costa		••••	•••••	••••		· · · · ·		   <sub>1</sub> .	,,	1	]
Humboldt	] 1		1						1		1
Modoc	-	1			i					1	}
Tehama Totals		1	1	1	2	1			2	2	13

#### TABLE No. 15.

showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1889, under Commitment for Murder in the First Degree, in what Years Committed, and from what Counties.

Counties.	1873	1875	1876	1877	1878	1879	1880_	1881.	1882	1883	1884.	1885	1886	1887	1888	1889_	Total
Alameda			l 1			<del></del>		_il					ا "	7_	ı	9	<u>8</u>
Amador Bute Suite Colusa Contra Costa Del Norte Tresno Inyo. Kern Lake Jos Angeles Marin Ariposa Jevada Jevada Jevada Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jerane Jer	1	1	1		. 1	1	1 2 2	3	2 2 2		1	1 1 1 1 1 1	1 1 2 1 1 2 2		1	1	3 1 2 2 2 2 1 4 1 2 2 1 1 4 1 4 5 8 4 4 1 1 5
in Mateo							1		1		1 1	2	1			1	1 3 1 3 2 2 2 3 3 2
llare: hama clumne satura	2	3	1 1  4	1	4	5	10	1  1 7	2  9	$\frac{1}{7}$	7	9	9	8	4	1 6	3 3 2  95

# REPORT OF STATE BOARD OF PRISON DIRECTORS. TABLE No. 16.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1889, under a mitment for Murder in the Second Degree, in what Years Committed, and from what County

															7
Counties.	1872	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889_	1
Alameda		1			1				1		1				
Amador					l		1		L		) -				
Butte					1	i	1 -	1							1
Colusa			_			1 -							i		- 3
Contra Costa									i				1		- 3
El Dorado								1	1 1					-	13
Fresno						1		1 1		1			$-\bar{2}$	1	- 3
Humboldt								1 *		l î			1	*	
								1	1	-			1		1
Inyo Kern						i		l i	1	ī	ï				1
		1	1			( -		l î		1 -	1 -	2			- 4
Lake				1		1		1 -	2			4			13
Los Angeles					<i>-</i>	_			_						1
Marin		1							<b>-</b> -			• • • •		i i	1 1
						1			1					1	1
Monterey									1	2		•••			1
Mariposa										1			;		1 1
Nevada							;-			1			1		11
Napa			:-				1						·		1 3
Plumas					ļ- <b>-</b>						ļ		- <b>-</b>		1
Sacramento							:-						ऱ-		1
San Francisco			:-				1	1	2	1	5	4	2	3	1
San Bernardino											1			1	14
Santa Barbara					ļ	:-			1	:-				:-	1
San Diego						1				1			1	1	( 9
San Joaquin													1		1
Santa Clara												2		2	1
Solano								1				1			1
Sonoma								1		2	1			2	. 9
Stanislaus						1		1							7
San Luis Obispo							1			1					1
Siskiyou					1										١,
Tulare						1		1				1			1
Tehama														1	1
Tuolumne								1						- <b></b>	. }
Yolo												1			,
Totals	3	3	3	3	2	7	4	11	9	11	9	11	9	12	100
		'	' l	- 1	1	1	1			J	. 1	f	- 1	{	1

Note.—Contra Costa, in 1867, 1; San Francisco, in 1874, 1; in 1875, 1; Sacramento, ii 1874, 1; Alameda, in 1876, 1; Tehama, in 1876, 1.

#### TABLE No. 17.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1889, under Committent for Manslaughter, in what Year Committed, and from what Counties.

	,					,		
Counties.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	Total.
Arizona							1	1
Alameda			1	1	1			3
Butte		1			1		· • • • • • • • • • • • • • • • • • • •	1
Colusa.	1	_	1			1		$\begin{array}{c} 3 \\ 2 \end{array}$
Fresno			1		1		1	
Los Angeles			2		i		7	10
Mendocino					1			ľ
Monterey					1			1
Merced			2		1			3
Mono					<b></b> -	1		1
Napa			2	1	6	1	2	14
an Bernardino				1 1	2		1	14
San Joaquin					2			$\mathbf{\tilde{2}}$
San Luis Obispo				1			2	3
San Diego							1	. 1
Stanislaus			1		1	1		3
Sonoma				1		1	3	5
Bolano			1					1
Berra Prinity			1		·	1	•••••	1
Pulare					2			2
Tehama					ī			ĩ
Totals	4	1	11	5	21	6	19	67
	1			l				

### TABLE No. 18.

Showing Number of Prisoners in the State Prison at San Quentin, June 30, 1889, under Commitment for Felonious Assault, in what Years Committed, and from what Counties.

											1
Counties.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	Total
Alameda							1	1	1	1	
Amador								1			1
Butte					1					1	
Colusa								1			. 4
Contra Costa				1		2		<b></b>			1 3
Fresno					1			- <b></b>			- 4
Humboldt			l <b>.</b>	l		<b></b> .	2	2	1		1 1
Kern			. <b></b> .					i			
Los Angeles							4	3	3	2	
Marin			1				l	l	l	ĩ	
Mendocino		l .	l				2			i	
Monterey							ī	1		l i	3
Mariposa								3		1 -	
Mono			i					) <b>'</b>			
Merced				1				1			4
Nevada						1		1 -			1
Napa						1	1			i-	4
Placer							-		i	1	*
San Francisco		1		5		2	4	9	+	13	
San Bernardino				1	1	1	1 1	3			1 1
Santa Barbara			11		1	1	\	3		5	1
			_		1			<b></b> -		1	3
San Diego									1	<b></b> ;-	4
San Joaquin		·-					2	- <b></b>		1	1
San Benito									~ ~ ~ ~	1	- 4
Santa Clara	-		1			1		2		2	19
olano			- <b></b>	1					[		I I
gonoma.		1	1								
Stanislaus				<u>-</u> -	~			1	1	2	1
San Mateo											I I
iskiyou						1			1		21
Sierra					2			1			3
Shasta								2	- <b>-</b>	2	1
Culare					<i>-</i>		2	4	1		7]
Crinity	.					1					1
Ventura		l. <b></b>			1				l- <b>-</b>	1	2
Yuba					1					1	2
_	<u> </u> -						<b></b> -				
Totals	. 1	3	6	10	7	9	20	36	17	38	147
	1						L ,				

#### TABLE No. 19.

Offenses Against Life.

YEARS COMMITTE	Murder—First Degree	Murder	Murder—Second Degree	Manslaughter	Felonious Assaults	Total
Committed in year 1867 Committed in year 1872 Committed in year 1873 Committed in year 1874 Committed in year 1874 Committed in year 1875 Committed in year 1876 Committed in year 1877 Committed in year 1877 Committed in year 1879 Committed in year 1880 Committed in year 1880 Committed in year 1881 Committed in year 1882 Committed in year 1882 Committed in year 1883 Committed in year 1884 Committed in year 1885 Committed in year 1886 Committed in year 1886 Committed in year 1886 Committed in year 1888 Committed in year 1888		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 1 1 2 1 3 3 2 7 4 11 9 11 9 11 9	4 1 11 5 21 6 19	1 3 6 10 7 9 20 36 17 38	1 3 2 1 4 7 2 8 8 9 13 18 19 32 26 41 44 77 38 77
Totals	95	13	100	67	147	422

#### TABLE No. 20.

Prison Account from 1851 to July 1, 1889.

	<del>.,</del>	<del></del>	<del>.,</del>								
Years.	Prisoners Received by Order of Court	Pardons Revoked	Escapes Recaptured	Returned from Insane Asylum.	Returned Convict Witnesses	United States Prisoners Received	nce on l	Remanded by Order of Court	Total Received	Discharged per Act and Restored	Discharged per Act
1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1861 1862 1863 1864 1865 1864 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 18876 1877 18878 1879 1880 1881 1882 1881 1882 1883 1884	35, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 1050, 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2 16 25 29 32 33 35 20 9 7 4 4 2 1 2 2 3 3 4 3 3 4 3 3	1 1 2 1 1 1 1 1	121 22 21 8 200 111	4 4 11 4 5	2 1	2 3 1 5	35 - 108 - 1065 - 227 - 259 - 259 - 247 - 259 - 247 - 264 - 167 - 234 - 167 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 - 285 -	1 4 4 32 44 164 224 324 324 322 196 190	
1886	433 403 415 448 13,472	1 8	1 1 3 341	2 2 2 2 2 23	13 6 11 6 	7 4 9 5	7	1 1 15 28	460 418 597 480 14,221	230 236 194 118 4,487	145 265 4,611

#### TABLE No. 20—Continued.

		m		T =		T	I H	700	7 5		٦ ٦	
		Pardoned by the Governor	Pardoned by the President	Discharged l Sentence_	Discharged by Order of Court	Escaped	Died	Sent to Insane Asylum	Taken out as Convict Witnesses	Discharged by Order of United States Officials	Taken out by Order of Court	Total Discharged
		l g	8	1 3 5	€	출	1 6	- 7	8	1 製造	1 9	2
		] <u>\$</u>	) 5	86	5	۴ ا	1 1	1 #	2	86	1 2	\ <u>P</u>
		्रि	1 5	88	<u> </u> 2.	!	1 !	E .	2	<u>@</u> &	₹	臣
		٠,	٦,	2	βď			l B	ا مُّ	6.5	٦	2
	Years.	6	þe	S	9			<u> </u>		F0	5	[ <u>%</u>
		₽ .	7	ΙįĔ	<u>a</u>	1 1		<u> 9</u>	5	a	er	
		1 9	🕰		7	1 1		l E	🕏	;	9	
		2	l e	i g	1 7	1 1	·	1 7	#	117	Q	<i>l</i>
		5	-	1 0	) à				1 68	E.	Ĭ	1 !
				by Commutation of	1 2			1 1	<u>%</u>	₹.	Ť	
		<del> </del>	<del> </del> -		<del>  '</del>	<del>}</del>	<del> </del>	<del>                                     </del>	<del>                                     </del>	1	<del>}</del>	<del> </del>
1851 .		ľ	L		1	. 1		.1	1 .		1	1
1852		2				$ \hat{6} $	i					$\frac{1}{21}$
1853		. 9				8	l ã					58
1854		14				87	6					194
1855		14 29			4	28	1 3 6 1 5					157
1856 -		18			1	65	5					196
1857 -		18 28 27			4	72	14	2				234
1858 -		27			7	23	5 17	3				191
1859 -		38 25			13	95	17	1				299
1860 -		25			7	127	7	2				314
1861 -		34 11			5	35 90	8 15	1 8				212 286
1862 - 1863 -		24			9	24	4	7				193
1864 -		11			3	44	17	li				196
1865 .		ii			10	ī	8	3				177
1866 .		23			8	1 4	8	ľĭ		6		212
1867 -		37			11		16	<u>3</u>		6		289
1868 . 1869 .		44			7	5	9			1		303
1869 .		22		[ <i>-</i>	7		10	4				248
1870 .		32	1		14	1	10	13		1		325
1871 -		37		$\begin{array}{c} 1 \\ 2 \\ 1 \end{array}$	16	2 2 2	16			ļ <b></b>		316
1872 -		61	1	2	15	2	12	9				361
1873 .		15 26	1 2	1	20	2	8 11	3 5			·	190
1874 1875		32	2		27 35	6	18	3	••	3		377 425
1876		66 66		10	42	3	15	4		i		481
1877		30	2	35	37	10	16	2		2		427
1878 _		16	2 1	62	58	2	27	3				546
1879 . 1880 .		17	$ \hat{2} $	53	20	10	27 29	3 8 2				527
1880 .		19	2 2 3 2	20 15	1	7	28	2	14	1	14	604
1881 .		7	3	15	1	7	23	1	20		18	852
1882 1883		20	2		2 1	1	14	5	8		11	525
1883 1884		45			1	1	13	·	22 11	2	11	· 459 468
1004		32	1	1	1	4	14	3	11	1	17	468
1885 1886		52	Ĭ		1	ŝ	15	11	5	1	13	390
1887		27	1 2 1 1		2	3 2	29	3 19	13		5 5	425
1888		33	1	7		3	31	7	7 11	9 5	17	445 440
1888 1889		18 18	1		5	6	32 33	í	6	3	17	440 484
i.		10	1								11	101
Tota	ls	1,010	32	207	389	746	548	135	117	43	130	12,848
		-,010		20.	000	• 130	0.0	100		~	100	. 12,010

Norg.—Received, 14,221; discharged, 12,848; prisoners on hand June 30, 1889, 1,373. Transferred to Folsom Prison, in 1881, 253; in 1882, 60; in 1884, 50; in 1885, 2; in 1886, 4; in 1887, 1; in 1888, 7; in 1889, 11; total, 388. Received by transfer from Folsom Prison, in 1885, 3; in 1886, 3; in 1887, 2; in 1888, 157; total, 165.

TABLE No. 22.

Report of Articles Manufactured, Received, and Issued during the Fortieth Fiscal Year, Commencing July 1, 1888, and Ending June 30, 1889.

					-			
		Citizen	PANTS.			CITIZEN	Shors.	
1888 AND 1889.	Manufactured	Issued	Received Second Hand_	Issued Second Hand	Manufactured	Issued	Received Second Hund_	Issued Second Hand
July August September October November December January February March April May June	19 20 23 16 29 22 23 32 22 24 17 26	15 27 31 14 31 22 23 29 25 24 17 26	10 15 19 6 7 14 22 15 13 6 7 6	9 13 12 5 9 13 9 17 15 7 15 13	50 48 51 63 41 41 30 24 28 14 19	42 53 53 39 62 40 24 31 21 11 13 20	3 6 1 5 3 4 7 8 10 8 4 3	
Totals	273	284	140	137	423	409	61	61
		CITIZE	n Coats.			CITIZER	VESTS.	
1888 AND 1889.	Manufactured	Issued	Received Second Hand.	Issued Second Hand	Manufactured	Issued	Received Second Hand.	Issued Second Hand.
July August September October November December January February March April May June	23 23 24 20 29 25 24 31 22 29 18 27	27 23 32 14 34 26 23 30 24 29 18 27	1 2 3 4 2 6 4 3 2 1	1 2 1 2 2 3 3 3 1 2	20 25 26 17 27 25 23 28 22 27 25 33	24 24 32 15 29 25 22 26 25 27 27 25 33	3 4 3 2 1 2	
Totals	295	307	31	23	298	307	22	1 10

·		TABLE I	No. 22—C	ontinue	đ.			
		Convic	r Pants.			Convic	SHIRTS.	
1888 AND 1889.	Mauufactured	Issued	Received Second Hand.	Issued Second Hand	Manufactured	Issued	Received Second Hand.	Issued Second Hand
July	155 168 218 251 139 207 244 250 205 351 172 278 2,638	220 250 209 245 123 168 289 219 225 341 172 209 2,670	47 24 60 15 11 17 22 37 12 15 16 276	18 26 11 47 17 35 10 18 24 11 13 24	310 144 237 134 139 135 307 177 271 361 107 363	186 206 169 235 122 132 291 204 203 331 178 153 2,410	81 47 42 43 33 23 60 23 36 61 13 17	84 2 53 47 16 15 67 11 19 65 14 28
		Under	SHIRTS.	•		Dra	wers.	
1888 AND 1889,	Manufactured	Issued	Received Second Hand.	Issued Second Hand	Manufactured	Issued	Received Second Hand	Issued Second Hand
July August September October November December January February March April May June	102 101 70 124 161 205 175 64 207 376 531 208	64 63 99 114 181 200 147 96 136 354 281 330	24 22 29 23 36 24 31 25 14 19 23 27	20 19 15 24 32 21 25 31 16 18 25 29	13 110 106 114 144 204 193 55 208 384 483 325	67 52 95 100 186 200 150 98 138 361 278 342	19 16 13 27 23 15 19 29 29 33 26 24 13	19 16 25 14 · 23 17 23 31 35 24 27

TABLE	No.	22-	-Con	tinn	eđ.

TABLE No. 22—Continued.

TABLE No. 22—Collemacu.								
	н	ATS.			Bla	NEETS.		
Received	Issued	Received Second Hand.	Issued Second Hand	Received	Issued	Received Second Hand.	Issued Second Hand	
144 144 152 144 144 144 144 73 144 144 138	128 121 143 180 116 127 202 141 196 96 138 166	2 5 9 12 12 13 7 2 1	2 5 9 11 10 9 14 1 1 2 2 1 66	18 7 201 146 100 {58} 50 50 50 730	255 233 9 3 105 293 146 79 54 57 53 38	64 555 104 86 67 84 49 97 115 82 108 105	198 198 198	July - Augus septen Octobe Noven Decem Janua Febru March April May June - Tota
	Convict	SHOES.			Hickor	Y SHIRTS.		-
Manufactured	Issued	Received Second Hand.	Issued Second Hand	Manufactured	Issued	Received Second Hand.	Issued Second Hand	
163 160 160 195 165 173 168 134 190 177 171 158	167 158 162 171 140 178 154 148 181 216 181 165	5 13 14 14 13 10 16 29 30 18 16 21	11 14 15 12 12 14 4 21 22 17 15 23	34 40 44 38 22 18 28 42 29 52 19 32	34 37 44 29 31 15 31 42 16 26 34 26	3 7 6 10 13 9 8 24 13 5 98	nor geography	
	144 144 144 152 144 144 144 144 138 1,803  Manufactured 163 160 195 165 173 168 134 190 177 171 158	H	HATS.   Becceived   Scoon   Hand.	HATS.   Becceived   Second   Hand   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received   Received	HATS.   BLA   Be   Be   Be   Be   Be   Be   Be   B	HATS.   BLANKETS.   BLANKETS.   BE   Seu   Co   Co   Co   Co   Co   Co   Co   C	HATS.   BLANKETS.   BLANKETS.   BE   BE   BE   BE   BE   BE   BE   B	

			- Ge					
	CITIZEN	Shirts.	Soc	oks.	LAMP C	HIMNEYS.	Bro	омв.
1888 AND 1889.	Received	Tesued	Received	Issued	Received	Issued	Received	Issued
July		10 14 16 15 17 7 15 11 16 20 20 31	432 424 432 472 432 288 432 432 288 288 288 288 432	438 396 381 443 274 431 405 301 331 483 288 382	144 144 288 •144 288 432 144 288 422 216 216 216	137 97 223 241 303 430 246 212 287 220 342 193	72 72 72 72 72 72 48 48 72 72 24 120 72	72 72 50 65 75 40 73 50 62 75 92
Totals	194	192	4,573	4,553	2,942	2,931	816	769

TABLE No. 22.-Continued.

The Products of the Shoe and Tailor Shops.

	Conv	ICT.	Сітіг	EN.	Сітія	ZEN.	Conv	ICT.
1888 AND 1889.	New Work-Pairs	Repairs—Pairs	New Work—Pairs	Repairs—Pairs	New Work—Articles	Repairs—Articles	New Work—Articles	Repairs—Articles
July	163	59	{ *4 } 50 }	19	$\left\{ \begin{array}{c} *4 \\ 62 \end{array} \right\}$		580	
August	160	61	<b>*5 48 1</b>	21	$\left\{\begin{array}{c} *2 \\ 68 \end{array}\right\}$		523	
September	160	72	*5 \ 51 }	17	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		631	
October	195	56	<b>3</b> *4 <b>3</b> 63 <b>4</b>	13	<b>*4</b> 53		623	
November	165	79	{ *6 } { 41 }	23	\$ *5 \ 85 \ *3 \		583	
December	173	109	$\left\{\begin{array}{c} *4\\41\end{array}\right\}$	18	$\left\{\begin{array}{c} *3 \\ 72 \end{array}\right\}$		751	
January	168	· 111	{ *5 } 30 }	27	\begin{cases} *5 \ 70 \end{cases}		919	
February	134	140	\ \ 30 \\ \ *3 \\ 24 \\	16	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<b>54</b> 6	
March	190	96	*5 }	29	*4 \   66 }		891	<b></b>
April	17,7	76	*6 }	31	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1,472	
May	171	64	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16	} *3 1 60 {		1,293	
June	158	72	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	15	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1,174	
Totals	• 2,013	995	478 •	245	914		9,986	

<sup>\*</sup> Special orders.

Table No. 22—Continued.

Materials Expended in Manufacture and Repair for the Fortieth Fiscal Year.

		•	Convict.			CITIZEN.	
1888 AND 1899.		Sole Leather— Pounds	Kip Skins— Number	Nails, Screws, Etc.	Sole Leather—Pounds	Calf Skins, LiningsNumber	Nails, Screws, Etc. —Pounds
Shoe Shop.				İ			
July		605 550 680 600 750 650 790 600 670 700 655 700	24 24 24 24 24 36 36 24 24 20 18 36 24	60 80 60 90 75 60 95 75 55 79 69 45	145 200 280 150 170 175 125 150 180 50 195 75	18 18 18 18 18 18 18 18 18 18 18 18 216	20 35 15 30 25 20 15 40 40 34 55 45
		Ciri	EN.			Convict.	
1888 AND 1889.	Cloth—Yards	Linings and Trim- mings—Yards	Buttons—Dozen	Thread—Spools	Cloth—Yards	Buttons—Dozen	Thread—Spools
Tailor Shop.  July	28 53 160 { 105 } 113 } 57 { 57 } 57 67 75 87 75 99	82 110 66 77 65 130 110 144 173 147 250 174	48 72 56 32 44 63 54 101 36 42 65 96	72 96 60 84 68 49 37 50 36 49 57 65	1,200 1,200 1,200 1,406 1,115 803 813 850 1,051 873 435 823	200 225 205 196 300 374 750 400 165 210 277 312	350 430 450 250 410 352 225 327 275 410
Totals	997	1,528	709	723	11,769	3,614	4,21

#### TABLE No. 23.

Comparative Table of Measurements of Prisoners Confined in San Quentin State Prison, June 30, 1889.

#### Height of Prisoners.

<u> </u>			
No.	No.	No.	No
Under 5 feet 2	5 feet 3½ inches 37	$5 \text{ feet } 6\frac{7}{8} \text{ inches}$	5 feet 101 inches
5 feet exactly 1	5 feet 3 inches 8	5 feet 7 inches 15	5 feet 10\frac{3}{6} inches 1
5  feet  0  inch 0	5 feet 3\frac{3}{4} inches 15	$  5 \text{ feet } 7\frac{1}{8} \text{ inches } 59$	5 feet 101 inches
$5 \text{ feet } 0\frac{1}{4} \text{ inch}$	$5 \text{ feet } 3\frac{7}{8} \text{ inches } 12$	$5 \text{ feet } 7\frac{1}{4} \text{ inches.} 12$	5 feet 10s inches.
5 feet 0 inch 2	5 feet 4 inches 39	5 feet 7\frac{2}{3} inches 44	$5 \text{ feet } 10^{\circ}_{4} \text{ inches.}$
5 feet 0 inch 2	5 feet 4 inches 3	$5 \text{ feet } 7\frac{1}{2} \text{ inches } 5$	$5 \text{ feet } 10\frac{7}{8} \text{ inches } 1$
$5 \text{ feet } 0\frac{7}{8} \text{ inch} 0$	5 feet 4 inches 7	5 feet 75 inches 34	5 feet 11 inches
5 feet 1 inch 5	5 feet 4\frac{3}{8} inches 6	5 feet 7\frac{3}{4} inches. 13	$5 \text{ feet } 11\frac{1}{8} \text{ inches.} 1$
5 feet 1 inches 4	5 feet 41 inches 5	5 feet 7 inches. 29	5 feet 111 inches
$5 \text{ feet } 1\frac{1}{4} \text{ inches } 6$	5 feet 4\frac{1}{2} inches 31	5 feet 8 inches 4	5 feet 114 inches.
5 feet $1$ § inches $3$	5 feet 42 inches 5	5 feet 81 inches 37	5 feet 115 inches
feet 1 inches 7	5 feet 47 inches 16	5 feet 8 inches 3	5 feet $11\frac{7}{8}$ inches.
5 feet 18 inches 4	5 feet 5 inches. 2	5 feet 88 inches 15	6 feet exactly
$5 \text{ feet } 1\frac{8}{4} \text{ inches } 9$	$5 \text{ feet } 5\frac{1}{8} \text{ inches } 21$	$5 \text{ feet } 8\frac{1}{2} \text{ inches } 11$	6 feet 01 inch
$5 \text{ feet } 1\frac{7}{8} \text{ inches } 6$	5 feet 51 inches 11	5 feet 85 inches. 26	6 feet $0\frac{1}{4}$ inch
5 feet 2 inches 17	5 feet 5\(\frac{3}{2}\) inches 30	5 feet 83 inches 10	6 feet 03 inch
feet 2 inches 2	5 feet 5½ inches 9	5 feet 87 inches 2	6 feet 01 inch
5 feet 21 inches 7	5 feet 55 inches 28	5 feet 9 inches 4	6 feet 0g inch
feet 23 inches 3	$5 \text{ feet } 5\frac{3}{4} \text{ inches. } 119$	5 feet 9 inches 31	6 feet 03 inch
feet 21 inches 14	5 feet 5g inches. 21	5 feet 91 inches 4	6 feet 1 inch
feet 25 inches 3	5 feet 6 inches 17	5 feet 9 inches. 12	6 feet 13 inches
5 feet 23 inches 15 5 feet 24 inches 7	5 feet 6 inches. 51	5 feet 9 inches 5	6 feet 2 inches
	5 feet 61 inches 12	5 feet 95 inches 17 5 feet 95 inches 3	o reer o menes
	5 feet 6 inches. 25		Total1,3
5 feet 3½ inches 19 5 feet 3½ inches 25	5 feet 6 inches 18	5 feet 97 inches 24 5 feet 10 inches 4	10001,1,00
5 feet 3 inches 11	5 feet 6 inches. 14	5 feet 10 inches. 18	
rect of mones II	o reet of menes 14	o reer ros inches. 19	
	<u> </u>	1	<u> </u>

#### Between Temples.

No.   38 inches   7   48 inches   4   10 inches   11   4   76 inches   1   4   16 inches   1   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 inches   4   16 in	61 $4\frac{4}{8}$ inches 2 $\frac{4}{8}$ inches 1 16 5 inches 2 $\frac{4}{18}$ inches 2 $\frac{4}{18}$ inches 59	5½ inches
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#### Length of Middle Finger.

	<del></del>		
No.	No.	No.	· No
3½ inches and less 30 3½ inches	4 inches	41 inches	Females 1. To be measured 2. Total 1.37

#### Length of Feet.

No. 9 inches 39	No.	No.	12 in, and over
91 inches	101 inches 190	11½ inches 89	Females
		_	Total1,3

#### Length of Forearm.

No.	No. 17½ inches 90	No. 193 inchės 21	No. 22 inches 34
is inches 11	17 <sup>3</sup> inches 12 18 inches 60	20 inches 60 201 inches 54	221 inches
lie inches 21	184 inches110	$20\frac{1}{2}$ inches	$22\frac{1}{2}$ in, and over 6 Females 19
161 inches 9 161 inches 36	$18\frac{1}{2}$ inches	$20\frac{3}{4}$ inches	To be measured 23
16 inches 18 17 inches 50	19 inches 30 19½ inches 32	21½ inches 22 21½ inches 59	Total
inches 61	$19\frac{1}{2}$ inches 30	$21\frac{3}{4}$ inches 35	
,		<u> </u>	
		f Hands.	
No.	No.	No.	No.
% inches 14	3½ inches 74   3½ inches 187	$3\frac{5}{8}$ inches 55 $3\frac{11}{16}$ inches 55	4 inches 19 Over 4 inches 8
3 inches	$3\frac{1}{3}$ inches	3½ inches 75	Females 19 To be measured 65
36 inches 58 36 inches 36	3½ inches156	318 inches 39 32 inches 43	
38 inches 30	3 <sup>9</sup> <sub>16</sub> inches 89	3 inches 28	Total1,373
	\ Length	of Nose.	
No.	No.	No.	No.
1 inches 32	17 inches 97	$2\frac{5}{16}$ inches 41	218 inches 98
14 inches 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2\S$ inches 3 $2\frac{1}{2}$ inches 36	$     \begin{array}{ccccccccccccccccccccccccccccccccc$
1 inches 24	$2\frac{1}{16}$ inches234° $2\frac{1}{8}$ inches40	$2\frac{1}{2}$ inches 11	Females 19 To be measured. 23
11 inches 87	$2_{18}^{3}$ inches	$2^{5}_{18}$ inches. 41 $2^{8}_{18}$ inches. 3 $2^{7}_{18}$ inches. 36 $2^{5}_{18}$ inches. 11 $2^{9}_{18}$ inches. 41 $2^{9}_{18}$ inches. 104	
1 inches 17	24 inches106	2½ inches 84	Total1,373
	Diameter	of Head.	
No.	No.	No.	No.
## inches12	78 inches 61	$7\frac{18}{18}$ inches	8 inches 10
6 inches 7	$7\frac{7}{16}$ inches	75 inches 7	$8\frac{3}{8}$ inches
7 inches 516	$7\frac{9}{16}$ inches 9 $7\frac{9}{8}$ inches 18	8 inches 5 8 inches 12	To be measured 23
7 inches127	7 <del>11</del> inches 47	$8\frac{1}{8}$ inches	Total1,373
清 inches	$7\frac{1}{4}$ inches 81 $7\frac{1}{4}$ inches 3	$8_{16}^{3}$ inches 29 $8_{2}^{4}$ inches 51	
	•		
	Chest Mea	surement.	
No.	No.	No.	No.
n inches 2	35 inches116 351 inches 7	39 inches 105 39½ inches 4	45 inches 70 46 inches 10
2 inches 18	36 inches111	40 inches 72	47 inches 2
inches 11 inches 2	36½ inches 9 37 inches 177	40½ inches 1 41 inches 5	49 inches 2 Females 19
inches 115 inches 40	37 <del>1</del> inches 41	42 inches 3	To be measured 23
inches 81	38 inches 214 38½ inches 90	43 inches 4 44 inches 15	Total1,373

TABLE No. 24.

Report of	Number of	Days of L.	abor for Fiel	al Vear	Ending Jun	e 30 1889	Productive Class
пероп ој .	миньост ој	Days of L	aoor jor x isc	an reur.	вниту эчн	e 50, 1005—	Productive Class

Months.	Jute Depart-	Door Depart-	Chair Department	Engineer's De-	Foundry De- partment	Paint Shop	Tin Shop	Plumbing Shop.	Cooper Shop
1888.		-	İ	}			{	Ī	
July	14,594 19,473 15,177 16,773 15,680 16,868	3,492 4,224 4,231 5,122 4,675 4,764	50 54 50 54 50 50	393 413 441 472 391 390	375 403 375 425 353 344	150 155 160 201 175 175	120 129 150 135 110 100	120 124 120 111 100 100	MNHHMH
1889.  January February March April May June	16,266 15,864 20,524 20,973 21,507 19,479	4,702 4,157 341 275	52 48 52 76 81 75	392 367 330 214 217 210	338 312 433 447 423 375	182 137 151 186 161 120	104 96 104 104 108 120	104 72 81 104 112 150	REFERE
Totals	213,178	35,983	692	4,230	4,603	1,953	1,380	1,298	316
Montes.	Carpentel Shop-	Blacksmiths	Wheelwrights -	Upholsterers	Beltmaker	Locksmith	Improvenients -	Road Gaug	Stevedores
1888.	İ						Ì		
July August September October November December 1889.	.1 197	150 161 150 180 163 150	75 81 75 67 50 50	50 54 50 48 50 50	25 27 25 27 27 25 25	31 31 30 31 30 31	608 540 494 269 143 111	1,046 1,421 1,682 928 269 225	543 352 391 398 306 388
January February March April May June	176 215 238	155 120 179 182 189 150	52 52 54	52	26 24 26 26 27 27	31 28 31 31 31 30	110	698 690 1,246 1,762 2,566 2,638	524 505 598 658 481 414
Totals	. 2,875	1,929	706	623	310	366	2,807	15,171	5,558

#### TABLE No. 24-Continued.

Montes.	Rock Pile	Chicken Ranch	Hog Ranch	Stables	Vegetable Gar- dens	Flower Gardens	Coal Yard	Female Department	Lumbегшен	Grand Total
July	29 53 314 27 18 25	31 30 31 30 31 30 31	31 30 31 30 31 30	766 739 822 804 687 610	290 220 190 224 300 371	369 384 330 348 303 305	31 30 31 30 31 30	468 486 475 588 467 424	133 179 142 198 106 197	24,360 30,082 26,186 27,798 24,781 26,094
January February March April May June Totals	26 24 26 26 27 25 620	31 28 31 30 31 30 31 30	31 28 31 30 31 30 365	678 623 690 734 800 776 8,729	229 227 542 673 854 982 5,102	316 319 420 455 476 433 4,458	31 28 31 30 31 30 31 365	426 425 407 417 475 477 5,535	123 91 48  1,217	25,922 24,605 26,766 27,914 29,137 27,078 320,723

#### Non-Productive Class.

Months.	Warden's Office	Deputy Warden's	Turnkey's Office	Secretary's Office	Guards' Depart-	Commissary	Library Depart-	Laundry Depart-	Tailor Shop	Shoe Shop	Barber Shop
July	31 31 30 31 30 31	62 62 70 93 48 31	180 170 150 186 180 186	93 93 90 91 90 93	155 127 120 126 120 120	277 297 275 274 286 257	62 62 66 92 84 64	570 607 608 701 684 712	262 270 252 282 245 300	216 243 225 303 289 307	204 184 180 185 168 180
1889. January February March April May June Totals	31 28 31 30 31 30 31 30	31 28 31 30 31 30 547	186 168 186 167 170 180 2,109	116 112 114 90 93 90 1,165	124 112 124 137 155 150 1,570	283 264 286 308 319 300 3,426	62 56 90 90 115 120	743 686 799 828 881 808 8,627	313 288 398 440 437 424 3,911	312 288 312 302 327 275 3,399	180 175 221 210 210 207 2,314

Table No. 24—Continued.

											4
Months.	Cell and Room Tenders	Bath-tank Tenders	Door Tenders	Gate Tenders	Lamplighters	Hospital Nurses	Whitewashers	Sweepers	Scavengers	General Kitchen	Outside Kitchen
1888.	-10	00	050	200		104	050	400	210		
July	523 539 558 539	62 60 62 60 61	276 309 295 324 253 270	238 254 302 248 240 245	39 62 60 56 60 62	124 124 120 124 124 124 124	250 270 205 208 122 124	482 481 475 511 436 456	213 155 182 210 205 283	1,444 1,515 1,515 1,603 1,595 1,423	2 434 2 411 3 403 7 390
January February March April May June	532 589 570	62 56 62 60 31 30	260 247 182 159 97 75	230 214 290 297 310 300	35 28 31 46 62 60	124 112 124 120 124 120	110 125 207 206 216 176	536 528 172 182 211 185	240 211 233 210 235 240	1,474 1,515 1,835 1,856 2,049 1,986	364 2 408 3 398 3 401
Totals	6,671	668	2,747	3,168	601	1,464	2,219	4,655	2,617	19,80	7 4,849
Months.	Hospital Kitchen	House Servants	Electricians	Messengers	Telegraph Opera-	Photographers	Cripples, etc.	Patients in Hospi-	Unemployed	Daily Excuses, etc.	Grand Total
1888.			İ								
July	186 186 180 186 180 186	620 647 630 559 441 439	80 93 90 93 90 76	210 207 210 217 228 245	31 30 31 30 31 30 31	31 30 31 60 62	280 428 359 368 250 240	195 218 176 194 228 175	2,827  330 104	357 368 381 381 285 297	11,025 8,541 8,313 8,731 8,372 8,145
1889.	100	405	00	015	0.7	00	050	145	1.140	990	9,247
January February March April May June	188 168 186 181 204 210	465 392 409 396 430 437	62 56 62 83 93 90	217 196 204 215 216 210	31	62 55 62 60 62 60	256 112 130 169 243 294	147 138 189 160 180 186	1,149 750 892 139	230 334 470 586 531 432	9,24 8,356 9,321 8,588 9,192 8,667
Totals	2,241	5,865	968	2,575	223	606	3,129	2,186	6,191	4,652	106,498
	<u> </u>	·	<u></u>	<u>'                                      </u>		<u> </u>	<u></u>	<u> </u>	<del></del>		

## PHYSICIAN'S REPORT.

To Gen. John McComb, Warden California State Prison at San Quentin:

Sir: In making my report for the fiscal year ending June 30, 1889, I desire to call your attention to the unusual number of deaths from consumption—seventeen, half the whole number of deaths, from this fell scourge. Nearly all came here with the disease perfectly developed and easily distinguishable. I now have five men in the hospital, who will eventually die with this awful disease, whose lives could have been prolonged had they been sent to a more salubrious climate.

Therefore, I am in hearty accord with Dr. Ruggles, of the State Board of Health, when he proposes to have the Board issue a circular addressed to all Judges, asking them to carefully examine (or have the County Physician do so) all prisoners, and have them send those who have the slighest lung trouble to Folsom, for this reason: that the increased dryness of the air at that place is greatly to the advantage of all who suffer from lung troubles, more particularly consumption and asthma.

It is well known that the bay climate is the worst possible for those troubles; therefore, for the sake of extending the life of those suffering from those troubles and for the better preservation of the health of the convict, it would be only humane to send all who show the slightest disease of the lungs to Folsom.

Another thing is the great number of Spaniards who develop this disease. After being confined here a few weeks, they commence coughing, and rapidly go down, are taken to the hospital, and eventually die in spite of all medication.

The jute mill seems to be the worst place for them, and I am very careful to take them out of the mill when my attention is first called to them and put them in the road gang, where they sometimes pick up, but in nearly every case the relief is but temporary, and they soon sicken and die.

Taking data from all these facts, I would most strongly urge you to call attention to these facts, and urge upon the Board of Directors to cooperate with the Board of Health and call upon the different Judges to send all who are so afflicted to Folsom.

The health of the prisoners has been good during the past year; but deaths that have occurred have been for the most part Spaniards and old men who have been in prison for a long time.

The sanitary conditions are as good as one could expect from old buildings which are not of modern date or design, and have many defects, some of which have been remodeled, and others will always remain as long as the buildings stand.

I would call attention to the necessity of having a cesspool constructed, empty buckets in the morning; also the advisability of having around be water-closets paved with bituminous rock or asphalt, instead of as now ith bricks, for the reason that there is always more or less slop coming om a number of men emptying buckets, and this the bricks absorb, taking during the heat of the warm days an unpleasant odor, while a

bituminous rock pavement could be easily kept clean, and no smell would

REPORT OF STATE BOARD OF PRISON DIRECTORS.

The old bunks have been torn out and replaced with new ones in nearly

all cells and rooms, making it much easier to clean.

The new bathing tank is a marked success, as I predicted it would be in my last report, it being in the upper yard where the men have access to it at all times. They have no excuse for not bathing, and I don't think there are but very few men but what take advantage of the privilege, and take a bath at least once a week. And as cleanliness is next to Godliness this in a great measure prevents sickness.

As it comes within my province to inspect the food, and see that what the prisoners get is wholesome and fit to eat, I will say the food is good and wholesome—much better than one half the men would get were the

free.

The mess consists of beans, mush, bread of fine quality, and plenty of good coffee, for breakfast. Boiled beef, stew, potatoes, corned beef once week, and fish once a week, for dinner; and for supper beef stew with vegetables, beans (two kinds—red and white), and tea instead of coffee This, together with plenty of bread of the best quality at all meals (Chinamen have rice at all meals), constitutes the bill of fare, which I think plenty good enough for men who are sent here for punishment, not for a

The death rate continues to be somewhat large. This is owing to the large per cent of Spaniards, Indians, and Chinamen who, from the very nature of things, are prone to develop consumption, scrofula, and other kin-

dred diseases.

The average number of inmates was one thousand three hundred and thirty-eight, with a total of thirty-four deaths, making a death rate of 2½+ per cent. Of this number, two died by suicide, and one was murdered Taking this from the total will leave but  $2\frac{5}{18}$  per cent.

I am in hopes the death rate will be much smaller the present year. All

indications point that way.

I find, on referring to the books, that there has been five thousand and thirty-nine calls on the doctor for treatment, of which two thousand two hundred and forty-four were excused from labor-some for a length of time, while the most were for trivial ailments and only had an excuse for the day.

On dividing these calls into quarters, they show but very little difference,

showing that there has been no epidemic of any kind:

First quarter—Calls, one thousand four hundred and one; excused, six hundred and fifteen.

Second quarter—Calls, one thousand and ninety-three; excused, for hundred and ninety-eight.

Third quarter—Calls, one thousand two hundred and sixty-three; excused, five hundred and thirty-six.

Fourth quarter-Calls, one thousand two hundred and seventy-two; ex-

cused, five hundred and ninety-three. Making a total (as I have already said) of five thousand and thirty-nine

calls and two thousand two hundred and forty-four excused.

The following table shows the number of deaths, from what they died the month in which they died, and the number in hospital during the month:

July, 1888.—Number in hospital, 10. 11302—Samuel Stevens, consumption; 9978—Al Wan, opium habit; 11715-Louis Garcia, consumption.

August, 1888.—Number in hospital, 8. 11819—Tomas, Indian, consumption; 12971—Wm. Clements, consumption.

September, 1888.—Number in hospital, 12. No deaths.

October, 1888.—Number in hospital, 12. 12125—Santiago Sales, scrofula; 11458—William Scollard, pneumonia; 13174—Shortrom Yokosi, consumption.

November, 1888.—Number in hospital, 17. 13011—George Daily, suicided by jumping from balcony of sash and door factory; 5800—Tesdero Morena, cancer of throat; 12909—John O'Brien, consumption; 10111—Ah You, consumption; 11383—Indian Johnny, consump-

John 12916—Isaac Farren, inflammation of bowels; 12570—Billy Ketchum, scrofula.

December, 1888.—Number in hospital, 12. 12608—Ysedro Menchago, general debility;

12484—Charles Larkin, consumption; 12181—Annie Thompson, epilepsy; 12275—Daniel McCarthy, consumption.

January, 1889.—Number in hospital, 11. 12882—Fred. Gillett, general debility; 12818—Ybarro Branos, consumption; 13042—Ah Hing, heart disease; 12427—Ah Sam, consump-

February, 1889.—Number in hospital, 11. 13128—J. G. Crawford, suicided by hanging; 1232—Henry Lewis, murdered; 12807—John Mahoney, consumption.

March, 1889.—Number in hospital, 13. 10490—José Morfica, consumption; 13338—Juan Chino, cirrhosis of liver.

April, 1889.—Number in hospital, 13. 12650—John Doyle, inflammation of bowels.

May, 1889.—Number in hospital, 15. 12481—George West, syphilis; 12726—Juan Lopez, consumption.

June, 1889.—Number in hospital, 15. 13106-James Smith, heart disease; 9156-Jesus Ballos, consumption; 13552—Thornton McGee, consumption.

#### RECAPITULATION.

In conclusion, I desire to express my gratitude to you, sir, for uniform courtesy and prompt attention to all measures I suggested for the sanitary good of the prison, and to other officers for courtesy and kindly good feeling. Very respectfully,

F. C. DURANT, M.D.

512

## CHAPLAIN'S REPORT.

REPORT OF STATE BOARD OF PRISON DIRECTORS.

Hon. JOHN McComb, Warden:

DEAR SIR: I herewith respectfully submit my report of the department. under my charge for the year ending June 30, 1889. As I have, at the beginning of each month, made a report to you of the transactions of the previous month, this document will be little more than a summary of those twelve reports.

#### LIBRARY.

Again I have the pleasure to report that the library has been as popular and well patronized an institution as in any previous year. The prisoners appreciate, to the full, this means of mental entertainment, and are eager to avail themselves of the privilege to draw books from the shelves of the library. I must again express my regret that the Legislature does not place at the disposal of the Warden, monthly, a small sum, to add to the library a few, at least, of the current popular issues of the day. The additions of the year have been limited to the gift of a few second-hand volumes from the Mechanics' Library of San Francisco, and the binding of the monthly magazines, for which we are again indebted, mainly, to the generous liberality of Mr. George W. Gibbs, a merchant of San Francisco. The writer and the prisoners are grateful to him for his kind remembrance of those who are in "the house of bondage." I append a particular statement of the library during the year:

Books on the shelves July 1, 1888, five thousand two hundred and six; added during the year, eighty; condemned as too dilapidated for further use, ninety; missing, two hundred and four; leaving four thousand nine hundred and ninety-two as the present number. Of these, three thousand five hundred and fifty belong to the public, and one thousand three hundred and eighty-three to the Catholic side of the library.

The issues for the year were twelve thousand two hundred and twenty. seven, being a monthly average of one thousand and nineteen. Of these issues ten thousand nine hundred and forty-one were from the public of general side, and one thousand two hundred and eighty-six from the Catholic. Besides these books of the library, we have still an assort ment of about one thousand four hundred bibles, testaments, school, and prayer and hymn books.

#### DONATIONS.

These have been as liberal as in most of the former years, aggregating as follows:

Newspapers—miscellaneous Newspapers—religious Newspapers—foreign Newspapers—scientific Newspapers—illustrated Magazines and pamphlets	0.546
Newspapers-miscenaneous	- 13
Newspapers—religious	1,170
Newspapers—foreign	400
Newspapers—scientific	30
Newspapers—illustrated	13頃
Magazines and pamphlets	699
Books	90
Bagazines and pampinets.  Almanacs and calendars	1.709

The donors, to whom suitable acknowledgment was made at the time, are: The Rev. James Woodworth, Miss Stebbins, Mr. James Linforth, heirs of General Allen, Mr. A. C. Bradford, Cosmos Club, Mr. George W. Gibbs, Mechanics' Library, San Francisco; Miss C. Curtiss, Mrs. Dr. M. A. McMath, San José; Mrs. Kemble, Mrs. Dr. McClure, Oakland; Mrs. P. Hendry, E. R. Highton, Alameda; R. M. Sherman, Miss Chase, Santa Clara; Mrs. Brown, Dr. Hinman, unknown donor; Mrs. Lissak, Dr. Hassey, Pennsylvania; Mrs. Tharp, San Quentin. The Chaplain and his family have also added somewhat to the pile of donations.

#### BINDERY.

Much work has been done in this department, but it has not been worked up to its capacity for want of necessary material. It is still in charge of the same prisoners, who have had one assistant a part of the time. The work performed has been highly creditable to the binders. It foots up as

Books bound and rebound	199
Books repaired	461
Copybooks made	239
Tablets for the offices	136

#### EMPLOYÉS.

There are two assistants in the library, one having special charge of the Catholic side, one bookbinder, and an assistant—four in all, who also do the janitor's work. All, of course, are prisoners.

I have attended fifteen funerals during the year—a small number when compared with previous years, and certainly a small per cent of the more than one thousand three hundred inmates of the prison.

#### RELIGIOUS SERVICES.

These have been regularly held, as heretofore, in the prison chapel at 9:15 A. M. on each Sunday. On the second and fourth Sunday of each month, the services of the Roman Catholic Church are held by the Rev. H. Lagan, of San Rafael, and his assistants. The other Sundays are occupied either by myself or by other ministers, who have, from time to time, kindly accepted my invitation to preach to the prisoners. The Rev. James Woodworth, of San Francisco, Secretary of the Prison Commission, has, as usual, officiated on the third Sunday of each month. The attendance during the year has been larger than on previous years, the chapel being well filled each Sunday, and sometimes crowded. I have administered the holy communion four times to the little band of professing Christians. On the twenty-third of June, Archbishop Riordan, of San Francisco, visited the prison and administered the holy rite of confirmation to a large number of recipients. His visit, official acts, and earnest address to the prisoners, made a deep and, I trust, a lasting impression upon the men. suppose that the Assistant Chaplain has given you a full account of this Interesting service.

It is my intention, at an early day, to have a confirmation held by the shops of the Protestant Episcopal Church, and believe that a large class all be ready and anxious to receive the rite of "laying on of hands."

I believe and think a careful observation of nearly eight years enables to speak with some confidence that the effect of all these religious services is not only good upon the attending prisoners personally, but also promotive of good discipline in the prison generally. Many of the prisoners and sincerely desirous of a thorough reformation, and in their endeavors to accomplish this object, these religious services exert an influence for good second to none in a penological institution.

Services are still held in the women's department, on the first and third Sundays of each month. The attendance is small, but the services are

warmly greeted by the few who do attend.

The Sisters of Mercy continue their monthly visits to the prison. I always give them a hearty greeting, and my wishes for success in their self-denying efforts to do good, not only to those of their own sex, but also to the men in the hospital, and elsewhere in the prison. Would that some other "holy women" would imitate their Christian example.

Respectfully submitted.

WM. H. HILL, Chaplain.

SAN QUENTIN, July 1, 1889.

## CHAPLAIN'S REPORT.

Hon. John McComb, Warden of San Quentin:

DEAR SIR: In April of last year the Board of Prison Directors, in that spirit of fair dealing that characterizes all high-minded citizens, gave the unfortunate Catholic prisoners equal rights with their Protestant associates. At the request of His Grace, Most Reverend Archbishop Riordan, and at your own strong recommendation, prompted by your sense of right and justice, the Directors, by a unanimous vote, appointed a Catholic Chaplain to minister to Catholic prisoners. Since then my assistants and myself have worked, with a certain amount of success, for the spiritual interests of those professing our faith, and for the material interests of the State, which must be affected for good or for evil by the moral character of its citizens. It affords me great pleasure to state that every effort was encouraged by those in authority. Indeed, I gratefully acknowledge the uniform kindness and constant good will manifested by the Warden and every subordinate officer. Many of the grateful prisoners have many times expressed similar feelings in more expressive language for this happy state of affairs. There are many generous and appreciative souls behind bolts and bars, upon whom kindness is never wasted. Every little shadow of attention or consideration brings a ray of light into their ruined lives, fills them with inexpressible gratitude, and makes the hardened man a child in confidence and obedience.

Before my connection with the prison, I had very different ideas of the unfortunates, branded with the stigma of social ostracism, made to wear a garb of shame, and condemned to dwell in living tombs. To my eye, every convict was a criminal to be shunned or watched. I am now satisfied, as I am of my own existence, that there are innocent, yes, saintly men in San Quentin. I believe that hearts as good, as loyal, and as true, beat under coarse, striped flannel, as under the broadcloth, the velvet, and purple of a glittering world; hearts, that in the wild moment of passion, or in the evil hour of insane drunkenness, have yielded to excesses and stooped to crimes which they would give a thousand lives to blot away. There are brutal natures, vicious creatures, and human monsters, who need iron tanks and armed keepers, and who are not at home except in prison. It is not hard to distinguish these different classes of men in the prison yard. The religious life of the prisoner is the greatest comfort to the first and better element, and makes them, in a manner, resigned, if not satisfied, with their sad fate.

It was for them a day of great joy and consolation when the chief pastor of their souls paid his first official visit to their dismal home, consoled them in their sorrow, encouraged them by loving and fatherly advice, broke to them the bread of life, and placed on their brows the standard of Christ, which shall be for them in the future the standard of victory. Over two hundred convicts received holy communion, and over two hundred more the sacrament of confirmation at his hands. A considerable amount of time and labor had been expended for this happy result. Four priests abored faithfully for the greater part of the preceding week, in hearing the

confessions and instructing the prisoners. Non-Catholics may consider it as they will, but the power that takes the man of passion and makes him docile as a child; brings the hoary-headed old sinners, and the young man full of passion and resistance, on his humble knees, and, in the language of sobs and tears, extracts from him the history of his dark and chequered life; brings from his lips, yes, from his heart, expressions of sorrow and regret for the evil past, and promises reform for the future—this is a power for good that few can appreciate, who have not seen or experienced its magnitude. This power was at large during the mission at San Quentin, and this happy fact we owe to you. In the name, therefore, of the Archbishop of the diocese, in the name of the priests of the State, and particularly in the name of the prisoners, I sincerely thank you for the true spirit of religious liberty and equality that marks your administration.

We visit the prison frequently in the discharge of our duties. On every second and fourth Sundays of the month, at 9:15 A. M., mass is celebrated and a sermon preached. On the same day there is catechetical instructions from 1 to 2 P. M. The large Chapel Hall is always packed with a respectful and, I believe, an average religious congregation. Their conduct

is all that could be desired in a fashionable city congregation.

Good results must necessarily follow from the Sunday services. The chapel is not suited for divine service. There is nothing in it to create or foster devotion and piety. In the first place, there are not enough benches The walls are rough brick; the roof ugly and open. Almost alongside the platform on which the priest celebrates mass and from which the minister preaches, there is an article of furniture that should be located elsewhere. The chapel should, I believe, be put in proper order for the sacred services of religion. No doubt but as soon as the many and vast improvements inaugurated during your administration are fairly under way, you will direct your attention to the miserable chapel, and make it what it should be. The chapel serves also for a library. This department is under the jurisdiction of Rev. Mr. Hill and two assistants. One is a Catholic, and is supposed to be particularly interested in the Catholic section of the library. The library is tolerably fair. There is a great deal of miscellaneous and light reading. The reverend Chaplain has already made an exhaustive report, every word of which I indorse, and particularly those relating to the binding. We attended many sick calls during the year, and in relation to them I wish to express my appreciation of the Christian spirit of Mr. Hill, who always telegraphs or telephones us as soon as he sees danger of death to a poor Catholic patient.

There is no compulsion to attend divine service, and of this I approve. I highly and heartily approve of your action in throwing open every prison door on Sunday morning, giving every prisoner the freedom of the yard for the day. I have been often delighted to see the young men playing and jumping and indulging in all kinds of boyish amusements, for then I knew that, for the passing hour at least, they forgot their sorrows and looked not on the towering walls, the gloomy cell, and the frowning guns

on the posts.

The female portion of the prison we attend once per month. We say mass or give an instruction. We visit them as occasion requires during the month. They are always most respectful and docile. All their surroundings are clean and neat; their rooms, particularly, are models of taste and culture. Wishing you a long term as Warden of San Quentin,

Yours, very respectfully,

H. LAGAN, Chaplain.

## REPORT OF THE WARDEN

OF THE

State Prison at Folsom, California.

## WARDEN'S REPORT.

To the honorable State Board of Prison Directors:

GENTLEMEN: I have the honor to submit herewith my annual report for the fortieth fiscal year, also the reports of the Deputy Warden, Physician, and Commissary, showing in detail the operations of the Folsom State Prison.

The report of the Clerk, also submitted, sets forth fully the financial

transactions of the prison for the year.

The appropriation made by the Legislature for the thirty-ninth and fortieth fiscal years was \$250,000. We used for the support of the prison during the thirty-ninth fiscal year, \$113,573-72; during the fortieth fiscal year, \$116,039-46, making a total of \$229,613-18; leaving a balance of \$20,386-82 of the appropriation unexpended after paying all liabilities for the year, which will, by law, revert to the General Fund in the State Treasury. By reference to Table No. 8, of the Clerk's report, it will be seen that we have in the Folsom State Prison Fund, \$11,359-66; due from sundry debtors, \$5,024-56; cash on hand, \$1,532-11; total available cash assets, after paying all liabilities for the fortieth fiscal year, \$17,916-33. This amount will be available for use during the ensuing two years, which, added to the appropriation made by the last Legislature, will be ample to meet all requirements, notwithstanding the prospect of a large increase of the number of convicts on hand, and the decrease in the appropriation of \$30,000.

We have done but little quarrying of stone for sale, owing to the employment of all our laboring force on the dam and canal. The demand for building-stone, curbing, crosswalk, and trimmings for buildings is steadily on the increase, at advanced prices over last year, with a prospect of a much greater increase in the future. We could readily find sale for all the granite we can quarry and dress. I have faith in the future operations of the quarry when we are in a position to utilize our labor in that direction. Table No. 3, of the Clerk's report, shows the maintaining cost of the prison for the year in detail, the total being \$97,445 09. The average number of convicts on hand for the year being 488.3, makes the per capita er diem cost fifty-four cents and six mills. This is a larger pro rata than should be, and is due to several causes. The average number of prisonwas reduced from 539 the previous year, to 488.3 by the transfer of one undred and fifty prisoners to San Quentin in the latter part of the prejous year. The working of all our available force outside the limits of be prison, scattered along the bank and bed of the American River for me distance, necessitated the strengthening of the guard line to prevent Reapes; hence it will be seen that the salary account of \$39,726 47, or 45 er cent of the total maintaining cost, is largely out of proportion to the mber of convicts in the prison, and that of necessity increased the per pita per diem cost. As stated in a former report, it requires a certain Imber of officers to properly transact the business of the prison, and that

force would not be increased if there were one thousand five hundred co victs instead of five hundred. It also takes a certain number of guar to form a secure line in the absence of a wall, and when the line is form it would be as easy to securely hold eight hundred as four hundred co victs, at least the increase of the guard force would be but a small per co of the increase of prisoners. The salary payroll should not exceed 30 pt cent of the total maintaining cost, and would not, except in the conti gency referred to. Another item of increased cost is in the character work we are now engaged in. The quarrying of stone, and the handling of loaded cars and heavy machinery, are destructive of clothing and sho to a much greater extent than any other kind of work, as well as requiring more substantial food than the lighter employments of the factory. Man of these causes of increased cost will be eliminated during the ensuing year. The number of convicts will average at least one hundred more daily, which will make but little increase in the total cost. I hope to reduce the per capita per diem down to the average of the best manage prisons in the United States.

We suffered some loss by fire during the year. Two wooden building used as a carpenter shop, tin shop, plumber shop, paint shop, photograp gallery, and sawmill, were burned July 1, 1888. The day was exceeding hot, and from the inflammable nature of the material, they burned quickly that we could not save any portion of the contents. Again, if October we lost our hay and cow barn and one hundred tons of hay by fire For detailed account of our loss, see Table No. 6, of Clerk's report.

The farm has been unusually productive; we have cured, baled, an stored nearly two hundred tons of hav of prime quality, which will exceed our requirements for the ensuing year. A much larger area was planted in garden with good results. The yield of grapes was also large, at materially improved the diet of the prisoners' mess without increasing the cost. In the latter part of winter we planted out eleven acres of choice varieties of table grapes and fruit trees, to make the beginning of a future orchard and vineyard. Their growth so far has exceeded our expectation and demonstrated that the soil on the farm is peculiarly adapted to raising of vegetables, fruit, and vines. I hope to increase the orchard and vineyard next year, so as to meet the full requirements of the prison, in both employés and prisoners. I find the latter take great interest in the raising of vegetables, fruit, and grapes, as they are, in a measure, the ben eficiaries of their own labor. With plenty of water, which we will have upon the completion of our power house, this can and will be made a mode farm, a credit to the State, and an example for the private citizen to follow

The report of the Deputy Warden gives some interesting statistical information regarding the convicts. Two hundred and sixty-two convicts were received and one hundred and thirty-four were discharged, a net gain one hundred and twenty-eight during the year; leaving five hundred and forty-nine on hand at the close, as against four hundred and twenty-one the previous year. At the close of the year our full number was on hand except those legally discharged; in other words, we had two escapes, but of whom were captured and returned to the prison. This is a flattering tribute to the efficiency of our guards, when it is remembered that we are working our entire force outside the prison wall, almost in the wilderness.

The Physician's report is especially called to your attention. But deaths occurred during the year, an average of 1.22 per cent of our population. Of this number one was killed by the guards while attempting run through the line, one was killed by the falling of a derrick, and died from the effects of injuries received in jumping from the train while

ing conveyed to the prison, leaving but three natural deaths, neither of hich was due to any local or climatic causes. Better proof of the splendid interpretation of the prison, the healthfulness of the locality, and the are and attention given the sick and afflicted could not be adduced. If withing further was needed it could be supplied in the limited cost of the Hospital Department, as shown in Table No. 3, Clerk's report.

The discipline amongst the prisoners has been uniformly good. They have worked well, and complied cheerfully with the rules adopted for their midance. But few punishments have been necessary, and only for trivial denses. I commend them highly for good conduct and faithful labor.

#### THE DAM AND CANAL.

The completion of this undertaking is no longer a theory; it is an assured and almost an accomplished fact. When we closed down work on the dam in November last, on account of the high water, the many thousand cubic vards of masonry that were buried in the foundation, left but little to be seen as an evidence of our summer's work, and it was with some hesitation that we asked the Legislature for an appropriation of \$112,500 to build the State power house, including a large pump to raise water for irrigation and domestic uses, an electric light and power plant, etc. The employment of convict labor upon large public works of this kind seemed to strike a popular chord, while the advantages and economy of water power over steam power were so apparent that the Legislature, by a unanimous vote of both houses, granted the appropriation asked for. Since the adjournment of the Legislature work has progressed vigorously and favorably, and, at the date of this report, September first, it is demonstrated that the dam will be completed across the river early in November. The wingdam and headgates will take some four months longer. When that is accomplished, the entire force will be placed on the State power house and canal, which will be completed, and the resultant power be in use by the State before our next annual report is submitted. No one can appreciate the magnitude of the work except by personal inspection. It has been examined by eminent engineers and pronounced by them to be the best and largest work of the kind in America. In fact, its massiveness and musual stability were sharply criticised, until the terrible disaster in Conemaugh Valley, Pennsylvania, brought the American people to a realizing sense of the destruction that could be caused by such structures when proper attention was not given to the power of so large a body of water held in check by artificial means. There will be no repetition of that disaster in this case unless all engineering skill is at fault. The Folsom Water Power Company has spared no expense in material, and as the State is out nothing but the convict labor, it has been deemed best to make the work a monument of industry for all time, and a lasting credit to his Excellency Governor Waterman, and to the honorable Board of Prison Directors, who have given it their official and personal support from its inception to the present time. As the advantages that will accrue to the state from the completion of this work, and the application of the resultant Nower. were fully set forth in my last report, it is unnecessary to recapituate here. The Legislature will have to determine at its next session what adustries it will be best for the State to engage in.

In conclusion, I desire to express my sincere thanks to the Governor of State, and all the members of your honorable Board, for the hearty prot given the management of the prison during the past year. It has a terially lessened the duties imposed on me personally, and greatly

facilitated the maintenance of good order and discipline, rendering the administration of prison affairs a pleasure instead of a trial. The officer and guards of the prison are also entitled to the thanks of the honorable Board and myself. They have been unremitting in their efforts to advance the best interests of the prison and the State; have faithfully and intelligently carried out all instructions given them, and manifested an earnest desire to promote harmony and good feeling toward each other.

Respectfully submitted.

CHARLES AULL, Warden Folsom State Prison.

## CLERK'S REPORT.

STATE PRISON AT FOLSOM, CALIFORNIA, September 1, 1889.

To the honorable State Board of Prison Directors:

GENTLEMEN: I herewith submit for your consideration a full statement of the financial transactions of this prison for the fortieth fiscal year, ending June 30, 1889.

Very respectfully,

W. W. CUNNINGHAM, Clerk.

Cash Receipts of the State Prison at Folsom during the Fortieth Fiscal Year, ending June 30, 1889.

Tota 1	\$1,492 25 9,545 28 19,727 11 9,389 98 11,309 22 9,813 38 10,001 27 10,442 67 10,48 87 3,484 73 3,784 13	\$122,762 33
Miscellaneous	\$2 00 34 00 15 00 19 70 19 70	\$94 45
Insurance	\$2,000 00	\$2,000 00
Folsom Water Power Co	\$206 27 149 62 180 34 230 53	\$998 09
United States Government	\$116 50 45 50 171 30 46 00 459 33 46 00 138 00 138 00 135 00	\$1,202 63
Laundry	\$14 85 22 03	<b>\$</b> 36 88
Sales, Hospital Department	# 12	<b>\$</b> 34 80
Rentals, Wooden Buildings	######################################	\$406 00
General Appropriation 40th Fiscal Year	\$5.532 \$5.532 \$8.882 \$8.882 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5.50 \$5	\$96,451 96
General Appropriation 39th Fiscal Year	\$8,329 87 9,868 56 50 00	\$18,248 43
Sales of Granite_	\$1,043 04 250 00 15 00 15 00 15 00 15 00 15 00 57 50	\$1,796 84
Момтн.	Balance June 30, 1886 1888—July August September October November 1889—January Kebruary March Agy June	Totals

REPORT OF STATE BOARD OF PRISON DIRECTORS.

TABLE No. 2. Cash Disbursements of the State Prison at Folsom during the Portieth Fiscal Year, ending June 30, 1889.

Total	\$8,737 61 20,653 28 9,534 406 4,244 406 4,244 406 3,554 24 3,554 28 9,882 68 9,782 34 4,645 29 13,886 48 3,531 10	
Allowance in Lieu of Board	24 24 24 24 24 24 24 24 24 24 24 24 24 2	\$813 75
Transportation Prisoners, Insane, Etc.	<b>\$113</b> 80	<b>\$113</b> 80
State Treasurer_	\$581 78 1,215 39 2,000 00 1,000 00	\$4,797 17
Escaped Prison- ers	00 001\$	\$150 00
Expenses	\$30 00 6 70 6 70 11 80 10 00	\$81 00
Discharged Prisoners	### ### ### ### ### ##################	\$903 85
Postage	\$12 00 \$12 00 \$2 42 50 \$2 60 \$2 br>\$2 60 \$2 br>\$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	\$214 50
Salaries — 40th Fiscal Year	\$59 67 3,395 28 3,372 52 8,872 52 8,69 37 6,68 37 3,466 71 3,370 00 3,466 71 3,370 00 3,456 80 3,456 80 3,456 80 3,456 80 3,456 80 3,456 80 3,456 80 3,456 80	\$37,367 32
Salaries — 39th Fiscal Year	\$3,278 32 3,278 32	\$6,394 52
Merchandise — 40th Fiscal Year	\$6,022 53 5,735 19 11,693 32 12,700 47 6,385 41 6,125 34 10,356 08	\$59,018 34
Merchandise — 39th Fiscal Year	\$4,890 71 6,485 26	\$11,375 97
Монтв.	1888—July 6,6,5 September 6,5 September November November 1889—January February March April May June.	Totals

TABLE No. 3.

Exhibit of Cost of Maintaining Prisoners at State Prison at Folsom for the Fortieth Fix.

Year, ending June 30, 1889.

	July 1, 1888.	During Year.	Total.	July 1, 1889.	Balanc
Salary		\$39,726 47	\$39,726 47		\$39,72
Expense		2,834 54	2,834 54		2,83
Hospital Department	\$1,114 92	1,122 47	2,237 39	\$916 90	1,32
Discharged prisoners	.   <i></i>	1 896 55	896 55		89
Warden's house		1,359 18	1,359 18	35 12	1,32
Warden's house Officers and guards' mess Prisoners' mess	. 514 28	9,693 58	10,207 86	545 96	9,66
Prisoners' mess	1,550 90	22,978 06	24,528 96	2,093 94	22,43
Commissary Department	. 521 60	303 11	824 71	528 60	29
Capt. of Guards' Department	11,912 73	2,123 12	14,035 85	12,259 09	1,77
Turnkey's Department	- 6,684 31	11,882 15	18,566 46	8,424 49	10,14
Engineer's Department	. 2,314 90	4,603 92	6,918 82	4,441 99	2,47
Laundry Department	. 842 90	780 49	1,623 39	910 68	719
Stock Department	4,539 35	3,161 44	7,700 79	5,715 72	1,98
Warden's office	954 74	498 23	1,452 97	1,405 93	4
Clerk's office	252 40	92 48	344 88	249 40	9.
Permanent furniture	4,230 34	435 82	4,666 16	4,664 38	Ť
General repairs Railroad material		537 75	537 75		53
Railroad material	2,212 73	326 51	2,539 24	2,422 41	116
Light Department	2,226 52	2,485 74	4,712 26	2,293 57	2,41
Light Department Farm Department Profit and loss (Commissary	3,800 00	2,253 62	6,053 62	2,153 70	3,890
Profit and loss (Commissary	)	127 68	127 68	l	12
Prison Directors' account	í]	284 70	284 70		284
Escaped prisoners		1 296.85	296 85		296
Insane prisoners (transpor- tation)		]			
tation)		35 50	35 50		35
Transportation prisoners	-	125 55	125 55		125
Totals	\$43,672 62	\$108,965 51	\$152,638 13	\$49,061 88	\$103,576
Receipts from farm					6,131

Average number of prisoners, 488.3; cost per capita per diem, 54.6 cents.

TABLE No. 4.

Earnings of the State Prison at Folsom for the Fortieth Fiscal Year, ending June 30, 1889.

					•	
	QUA	RRY.	FA	BM.	Labor.	Earning
	Dr.	Cr.	Dr.	Cr.	Cr.	Fortiet Fiscal Ye
Receipts during fortieth fiscal year Stock on hand, inventory		\$3,861 22		\$6,828 84	\$93 50	
July 1, 1889  Issues during fortieth fiscal year	\$3,399 47	7,348 92	\$2,951 30	2,153 70		
Stock on hand, inventory July 1, 1888  Earnings fortieth fiscal year	6,560 38 1,250 29		3,800 00 2,231 24		93 50	<b>\$</b> 3,575
Totals	\$11,210 14	\$11,210 14		\$8,982 54	\$93 50	\$3,575
cal year						\$3,575

#### TABLE No. 5. Assets and Liabilities.

Assets.		
Warden's office	\$1,405 93	,
Clerk's office	249 40	
Real estate	15,000 00	:
Permanent furniture	4.664 38	·
· Warden's house	35 12	
Officers and guards' mess	545 96	:
Prisoners' mess	2,093 94	,
Farm	2,153 70	
Stock	5,715 72	
Quarry	7.348 92	
Hospital	916 90	
Commissary	598 60	1
Merchandise (Supplies on hand)	6,588 26	:
Railroad material	2,422 41	
Laundry	910 68	
Light	2,293 57	
Engineer	4.441 99	1
Turnkey	8.424 49	•
Captain of Guards	12,259 09	
Prison improvement		
Wooden buildings	10,640 32	_
Cash on hand	1.532 11	
State Treasury (prison earnings)	11.359 66	
Due from sundry debtors	4.918 56	
Due from United States of America	106 00	
1		\$518,958 27
Liabilities.		
Unpaid bills, May Unpaid bills, June	\$5,731 52	
Unpaid bills, June	10,486 83	
Unpaid officers and guards' salaries, June	3,319 15	
		19,537 50
Excess of assets		\$499,420 77
		<u> </u>

#### TABLE No. 6. Fire Loss Account.

<del></del>			
Farm—Hay	\$327 68		
Two iron-beam plows @ \$10	20 00		
One single plow	12 00		
One hay press	300 00	•	
One hay cutter	5 00		
Six hay forks	3 00		
One cow	20 00		
Two calves	10.00		
Stock—One bay filly	15 00		
Block—One bay filly One saddle horse, four years old	50 00		
One 2-year old colt, "Molly"	25 00		
One 2-year old colt, "Molly" One 3-year old colt, "Kate"	35 00		
One dump cart	30 00		
One dump cart	1.240 00		
One carpenter shop and contents	445 40		
( One tin shop and contents	492 17		
One paint shop and contents One plumber shop and contents	305 56		
One plumber shop and contents	268 20		
One photograph gallery and contents	479 20		
One photograph gallery and contents	250 00		
One tin and carpenter shop, 44½x36½ feet	200 00		
One barn, shed, and tank	370 00		
erchandise—Two hundred and thirteen thousand four hun-	""		
dred and sixty-four pounds of hay @ \$10 per ton	1.067 32		
and and and a to be some seeses		\$5,981	53
insurance		2,000	
Net loss		\$3,981	53
		,	

TABLE No. 7.

	TRIAL BALANCE, JUNE 30, 1889.	JUNE 30, 1889.	STATE PRISO	STATE PRISON AT FOLSOM.	TRIAL BALANOR, JULY 1, 1889.	s, July 1, 1889.
	Dr.	Gr.	Dr.	Ġ.	Dr.	Ġr.
Cash Labor Power-house appropriation Salary Quarry Californa State Prison at Folsom Expense General appropriation account Hospital Department Wooden buildings Discharged prisoners Warden's house Commissary Department Captain of Guards' Department Captain of Quards' Department Captain of Quards' Department Captain of Quards' Department Lurnkey's Department Engineer's Department Stock Department Frison and Commissary Warden's office Clerk's office Permanent furniture Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department Stock Department State Treasury Farm Department State Treasury Farm Department State Department State Department State Department State Department Frison Inprovement Frison Directoris account	1,532 11 580 00 5,088 63 6,088 63 10,090 82 10,090 82 10,207 88 10,207 89 10,208	\$93 50 310,075 68 210,075 68 77 54	\$39,738 47 6,088 63 2,834 54 10,640 32 10,640 32 10,370 88 10,370 88 11,623 89 11,623 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633 89 11,633	\$93 50 387,461 00 210,075 68 77 64	\$1,582 11 589 00 7,348 92 10,640 32 545 96 545 96 12,289 09 14,038 94 1,402 56 1,402 56 1,402 56 1,1389 67 1,1389 67	\$499,420 TT
Salaries (power-house appropriation).  Salaries (power-house appropriation).  Board State Capitol Commissioners.  Normal School (Chico)  J. W. Reeves Folsom Water Power Company United States of America.  M. J. Kelly  Dominican Brothers' Church James F. Sharkey Sundry creditors (June bills).  Sundry creditors (June bills).  Officers and grassé salaries for June Inventory State Prison at Folsom. July 1, 1889.  Balance to credit State Prison at Folsom.	4, 128 557 1,041 30 200 00 200 00 2,087 84 979 94 979 94 19 00	580 00 5731 52 10,486 83 3,319 15	4,018 27 499,420 77 499,449 66	501,041 94	288 87 1,041 30 200 00 254 11 1,060 00 2,067 84 979 94 19 00 19 00	580 00 5,731 52 10,486 83 3,319 15

REPORT OF STATE BOARD OF PRISON DIRECTORS.

#### TABLE No. 8.

Financial Condition of the State Prison at Folsom, June 30, 1889.

\$125,060 00	•	Amount of appropriation for fortieth fiscal year
	\$96,451 96	Amount of appropriation drawn to June 30, 1889
	16,218 35 3,319 15	1889 Amount of salary payroll for June, 1889
115,989 46		Balance of appropriation, after paying all indebtedness, fortieth
11,359 66		fiscal year  Available from appropriation for the thirty-ninth fiscal year  Amount in State Prison Fund, June 30, 1889
5,024 56 1,532 11		Amount due from sundry debtors Cash on hand June 30, 1889
\$38,303 15		Total amount available assets, in excess of liabilities, June 30, 1889.
	\$11,376 28	*Amount reverting to State Treasury, thirty-ninth fiscal year appropriation
	9,010 54	*Amount reverting to State Treasury, fortieth fiscal year appropriation
20,386 82		Amount available assets, other than appropriations, for forty-first fiscal year.
- φ11,310 39		mist nstat year.

<sup>\*</sup>Of the above table, the sum of \$20,386 82, being an unexpended balance from the appropriation for the thirty-ninth and fortieth fiscal years, reverts into the General Fund of the State Treasury by law.

## DEPUTY WARDEN'S REPORT.

STATE PRISON AT FOLSOM, CALIFORNIA, July 4, 1889.

Hon. CHARLES AULL, Warden State Prison at Folsom:

DEAR SIR: I herewith beg to submit my report, in tabular form, for the fiscal year ending June 30, 1889.

Respectfully,

W. H. ROBINSON, Deputy Warden.

TABLE No. 1.

Prison Account from 1881 to June 30, 1889.

										3
	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	Total.
Prisoners received by order of Court Pardons revoked	96	85	131 1	217	230	225	150	152	241	1,527
Escapes recaptured	2	5		3	1	3	3	3	3	23
Returned convict witnesses	2	1	9	4	6	2	4	2	5	35
United States prisoners received Returned by order of Court Received by transfer from San			2	2	1 2	1	1	1	1	7
Quentin	253	60		50	2	4	1	7	11	388
Total received	353	151	143	276	242	235	159	66	262	1,987
Discharged per Act	36 1	114	93 	75 11	48 32 11	42 71 1	69 80 8	80 88 4	23 83 9	580 354 59
Discharged by commutation Discharged by order of Court		1 2	8	3	22	16	13	1	1	65
Escaped	3	6	13	6 7	4 7	7	15	$\begin{vmatrix} 2\\7 \end{vmatrix}$	8 6	33 71
Killed while attempting to escape. Sent to Insane Asylum	1	1 1	2	2	1	2		7	3	3
Taken out as witness	2 1 1	2 4	9	4 2 1	6 5 1	2 4 2	2 1	2	. 5 1	36
Taken out for trial on new charge.  Taken out on writ of probable cause.				$\frac{1}{2}$	$\begin{array}{c c} 1 \\ 1 \\ 2 \end{array}$			-		3
Taken out on writ of habeas corpus.  Taken out for trial on additional charge	1		2	3	1			i		1
Taken out on certificate of proba- ble cause								1		1
Taken out by order of Court	1		1	1	3	-		-	-	3
Killed by fellow-convict Transferred to San Quentin		1			3	3	4	157	-	_ 167
Total discharged	56	139	144	118	147	152	198	350	134	1,438
	<u> </u>		<u> </u>		<u> </u>					

TABLE No. 2.

Recapitulation of Received and Discharged Prisoners, from July 1, 1888, to June 30, 1889.

Monte.			By Commitment		Witness Beturned.		Escape Returned	Returned from Insane Asylum		Transferred from	Total Received
August September October November December January February March April May June Totals			2 2 2 1	8 9 8 6 5 7 0 6 4 4 7 7	1 1 5		1 1 3		1	10 1	26 22 19 8 25 27 31 26 25 20 14 19
Монтн.	Discharged per Act and Restored	Discharged per Act	Taken Out for New Trial	Taken Out as Witness	sane Asylum	Committed to In-	Pardoned by Gov-	Died	Escaped	Commuted by Governor	Total Discharged
1888—July August September October November December 1889—January February March April May June	5 7 10 13 9 4 4 5 7 9	5 2 1 3 3 3 3	1	1 1 1		1 1	1 1 2 2	11	1	1	14 10 11 16 13 11 11 11 5 11 13 8
Totals	83	23	1	5		3	9	6	3	1	134

#### TABLE No. 2—Continued.

Number of Prisoners on hand last day of each Month for Fiscal Year ending June 30, 1889.

Month.	Number.
1888—July August September	433 445
October November December	445 445 457 473
1889—January February March	493 <sub>,</sub> 508 528
April	537 538 549
Daily average first half fiscal year	451.0 525.5 488.3

#### TABLE No. 3.

#### Nativity of Prisoners.

NATIVITY.	Number.	Per Cent.	Nativity.	.Number.	Per Cent.
United States.			Foreign.		
Alabama	1	.18	Austria	3	.54
California	108	20.00	Australia		,36
Colorado	3	.54	Azore Islands	1	.18
Connecticut	5	.90	Bayaria		.18
Dakota	1	.18	Canada	6	1.09
District of Columbia	1	.18	Chili	1	.18
Florida	1	.18	China		6.73
Illinois	17	3.09	Cuba	1	.18
Indiana	5	.90	Denmark	2	.36
Indian Territory	1	.18	England	18	3.27
Iowa	7 (	1.27	France	11	2.00
Kansas	1	.18	Greece	1	.18
Kentucky	8	1.45	Germany	30	5.44
Louisiana	4	.72	Holland	1	.18
Maine	7	1.27	Ireland	39	7.10
Maryland	8	1.45	Italy	4	72
Massachusetts	18	3.27	Japan	1	.18
Minnesota	1	.18	Mexico	16	2.91
Mississippi	1	.18	Nova Scotia	1	.18
Michigan	7	1.27	Poland	1	.18
Missouri	23	4.18	Portugal	2	.36
Nevada	1	.18	Russia	4	.72
New York	47	8.56	Sweden and Norway	12	2.18
Nebraska	1	.18	South America	1	.18
New Jersey	4	.72	Scotland	7	127
Ohio	12	2.18	Sandwich Islands	1	.18
Oregon	1	.18	Switzerland	1	.18
Pennsylvania	22	4.00	Tasmania		.18
Rhode Island	2	.36	Tahiti	1	,18
Tennessee	2 1	.36	Turkey	1	.18
Texas	1	.18	Wales	2	.50 36
Vermont	1	.18	West Indies	2	,00
Virginia	5	90 ∥			100.00
Washington Territory	1	.18	Totals	549	100.00
West Virginia	2	.36			
Wisconsin	7 [	1.27			

### TABLE No. 4.

#### Classification of Crime.

### TABLE No. 5.

#### Terms of Imprisonment.

Term,	Number.	Term.	Number.
Life	51	Eighteen years	4
One year	36	Twenty years	15
One and one quarter years	4	Twenty-two years	2
One and one half years	8 1	Twenty-five years	7
Two years	56	Twenty-eight years	1
Iwo and one quarter years	1	Twenty-nine years	1
Iwo and one half years	1 2	Thirty years	.l
Three years	34	Thirty-four years.	
Three and one quarter years	1	Thirty-five years	.
Three and one half years	7	Forty years	
Four years	38	Forty-two years	
Five years	1 58	Fifty years	
Five years and \$1,000 fine	1	Fifty-five years	
Six years	17	Sixty years	
Seven years	20	Seventy-three years	.
Eight years			
Nine years	7	Total	. 54
Nine and eleven twelfths years	1		
Ten vears	73	Prisoners serving first term	. 40
Ten years and \$1,000 fine	1	Prisoners serving second term	. 10
Eleven years	2	Prisoners serving third term	. 1
Twelve years	14	Prisoners serving fourth term	. 1
Thirteen years		Prisoners serving fifth term	-1
Fourteen years	14	Prisoners serving sixth term	.
Fifteen years	23	Prisoners serving seventh term	.}
Sixteen years		8	
Seventeen years		Total	. 54

#### TABLE No. 5—Continued.

## 

#### TABLE No. 6.

#### Age of Prisoners.

Age.	Number.	AGE.	Number
Fifteen years	1	Forty-two years	
Sixteen years	2	Forty-three years	1
Seventeen years	8	Forty-four years	) 7
Eighteen years	9	Forty-five years	1
Nineteen years	20	Forty-six years	1
Twenty years	26	Forty-seven years	
Twenty-one years	26	Forty-eight years	1 1
Twenty-two years	20	Fifty years	` '
Twenty-three years	21	Fifty-one years	
Twenty-four years	16	Fifty-two years	[ .
Twenty-five years	23	Fifty-three years	1
Twenty-six years	27	Fifty-four years	( )
Twenty-seven years	26	Fifty-five years	
Twenty-eight years	27	Fifty-six years	1
Twenty-nine years	20	Fifty-seven years	
Inirty years	27	Fitty-eight years	
Thirty-one years	19	Fifty-nine years	1
Thirty-two years	17	Sixty years	
Thirty-three years	11	Sixty-two years	
Thirty-four years	21	Sixty-four years	]
Thirty-five years	16	Sixty-five years	:
Thirty-six years	12	Sixty-six years	
I'hirty-seven years	11	Sixty-seven years	
Thirty-eight years	10	Sixty-eight years	
Thirty-nine years	14	Unknown age	
Forty years	15		
Forty-one years	4	Total	54

## TABLE No. 7. Number of Prisoners from Each County.

COUNTY.	Number.	Per Cent.	County.	Number.	Per Cent.
Alameda	34	6.20	San Joaquin	20	3.64
Alpine	1	.18	San Luis Obispo	6	1.09
Amador	4	.73	San Mateo	5	.91
Butte	14	2.55	Santa Barbara		1.64
Calaveras	4	.73	Santa Clara	16	2.91
Colusa	12	2.18	Santa Cruz		.91
Contra Costa	2	.37	Shasta	5	.91
El Dorado	7	1.27	Sierra	3	.55
Fresno	12	2.18	Siskiyou	6	1.09
Inyo	1	.18	Solano	9	1.64
Kern		.18	Sonoma	3	.55
Lake	1	,18	Stanislaus		1.46
Los Angeles	38	6.92	Sutter	2	.37
Marin	1	.18	Tehama	6	1.09
Mariposa	5	.91	Trinity	3	.55
Mendocino	. 9	1.64	Tulare	1 1	.18
Merced	5	.91	Tuolumne	2	.3
Modoc	2	.37	Ventura	3	.5
Mono	1 2	.37	Yolo	12	2.18
Monterey	3	.55	Yuba	9	1.6
Napa	3	.55	United States Courts:	i .	l .
Nevada	.) 7	1.27	Northern District of Cal-	1	
Placer		.37	ifornia	.] 3	.5
Sacramento	58	10.56	Southern District of Cal-		1
San Benito		.18	ifornia		.13
San Bernardino		2.91		\	.\
San Diego		.55	Totals.	. 549	100.0
San Francisco		29.87		1.	1

#### TABLE No. 8.

#### Occupation of Prisoners when Received.

Actor         2         Machinist           Baker         8         Millwright           Barber         7         Miner           Barkeeper         3         Molder           Blacksmith         11         Morocco dresser           Boatman         3         Packer           Book agent         1         Painter           Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brass polisher         1         Plasterer           Brass polisher         1         Porter           Broommaker         1         Porter           Bricklayer         3         Printer           Bridge builder         1         Railroadman	umbe
Baker         8         Millwright           Barber         7         Miner           Barkeeper         3         Molder           Blacksmith         11         Morocco dresser           Book agent         1         Painter           Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	
Barber         7         Miner           Barkeeper         3         Molder           Blacksmith         11         Morocco dresser           Boatman         3         Packer           Book agent         1         Painter           Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Pumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	
Barkeeper         3         Molder           Blacksmith         11         Morocco dresser           Boatman         3         Packer           Book agent         1         Painter           Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	9
Blacksmith         11         Morocco dresser           Boatman         3         Packer           Book agent         1         Painter           Bookkeeper         5         Pastry cook           Brakeman         1         Pipemaker           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	1
Book agent         1         Painter           Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	- 1
Book agent         1         Painter           Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Pounber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	4
Bookkeeper         5         Pastry cook           Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	ì
Boilermaker         2         Pipemaker           Brakeman         1         Plasterer           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	3
Brakeman         1         Plasterer           Brass polisher         1         Plumber           Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	9
Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	. :
Brewer         1         Porter           Broommaker         1         Preacher           Bricklayer         3         Printer	9
Bricklayer 3 Printer	
	- 8
Bridge huilder 1 Reilroadman	1
Buttonmaker 1 Sailor	1
Butcher 4 Sailmaker	1
Carpenter 13   Salesman	1
Cabinetmaker 5 Sawyer	i
Chairmaker 1    Saddler	2
Civil engineer 1 Shoemaker 1	13
Cigarmaker 2 Soldier	,3
Clerk 5 Spikeman	1
Cook 24   Stableman	1
Copyist 1   Stonecutter	3
Currier 1 Storekeeper	ļ
Dairyman 1 Surveyor Tailor	Į.
Druggist 1 Tailor	10
Engineer 3 Teamster	8
Farmer 14   Tinner	4
Farm laborer 4 Tool dresser	ļ
Fireman 1 Turner	1
Fishmonger 1 Valet	Ţ
Gasfitter 1 Vacquero	9
Hackman 1 Waiter	39
Harnessmaker 4 Weaver	1
Horseshoer 1 Wireworker	1
Hostler 6 Woodcarver	ē Ā
Interpreter 1 Woodchopper	1
Journalist 2 No occupation	
Laborer	549
Laundryman 12 Total	, me

#### TABLE No. 9.

Showing the Number of Convicts assigned to the various Departments, etc., of the Prison at the close of the Fiscal Year ending June 30, 1889.

DEPARTMENT.	Number.	Department.	Number.
RanchPermanent improvements	16	StableHarness shop	5 1
Laundry General kitchen	30	Carpenter shop	4
Bakery Officers' dining-room	8	Barber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumber shop   Plumb	1 1
Chicken ranch	8	Shoe shop	2
Whitewashers	10	Tailor shop Photographer	1
Gate tenders Library	1	Captain of Guards' office Deputy Warden's office	2
Commissary	i	Clerk's office Patients in hospital	4
General laborers	1 1	Daily excuses	8
Lamp room Hospital nurses	3	Unassigned Sweepers	1
Sawmill	4	Engineers	352
Vegetable garden Flower garden		Total	549

Table No. 9—Continued.

Employment and Labor Report for the Fiscal Year Ending June 30, 1889.

NATURE OF LABOR.	Days Labot.	NATURE OF LABOR.	Days Labor.
Quarry Department	497	Barber shop	705
Kanch	3.299	Plumber shop	581
Permanent improvements	2,104	Paint shop	
Laundry Department	3,791	Shoe shop	
General kitchen	10,560	Tailor shop	1,867
Bakery		Turning shop	138
Officers' dining-room	2,744	Photographers	
House servants	2,606	Woodchoppers	31
Chicken ranch		Captain of Guards' office	381
Whitewashers		Deputy Warden's office	1,047
Cell tenders		Clerk's office	
Gate tenders		Sweepers	
Library	358	Engineers	1,158
Commissary Department	1,905	Chico Normal School contract	
tias house	409	Folsom Water Power Company	227
Carpenter shop	1,243	Canal	91,570
General laborers		m	154.000
Dairy	413	Total days labor for year	154,802
Lamp room	734	Lost Labor.	
Hospital nurses	753	D-11 1-1 1-1	070
Sawmill		Patients in hospital	672
Scavengers		Daily excuses	2,082
Vegetable garden	1,811	Cripples, imbeciles, etc.	1,832
Flower garden	3,418	Unassigned	
Stable	2,948 329	Solitary	547
Harness shop		Total days lost labor for year	6,151
Car shop		10 war days tost labor for year	0,101
Tin shop	040		
	<del></del>	· · · · · · · · · · · · · · · · · · ·	

TABLE No. 10.

Clothing Account, July 1, 1888, to June 30, 1889—Clothing, Shoes, etc., Manufactured.

Monte.	Woolen Pants	Woolen Shirts	Hickory Shirts	Drawers	Undershirts	Shoes	Shoes Repaired.	Boots
1888—July August September October November December 1889—January February March April May June	203 38 123 159 159 144 136	119 112 102 83 131 52 133 149 132 85 61 138	48 61 2 30 2 14 10 8 14 6 93 28	47 54 32 177 198 220 197 152 115 117 56	61 89 34 178 204 218 186 156 108 132 74	98 98 112 169 142 132 136 94 144 91 70 80	56 60 52 48 35 54 49 53 23 59 47 71	
Totals	1,725	1,297	316	1,365	1,440	1,366	607	2

#### Clothing, Shoes, etc., Issued.

Month.	Woolen Pants	Woolen Shirts	lickory Shirts	Drawers	Jadershirts	Wool Hats	straw Hats	OOKS
1888—July	138	115	48	49	52	51	32	800
August	52	75	31	55	103	38	41	6
September	223	109	25	28	31	65	2	9
September October	100	83	24	169	164	82		19
November	120	106	7	192	184	89		14
December	128	109	10	222	215	81		785355
1889—January	124	107	20	187	185	79		853
February	128	98	4	114	111	52		- 0
March	102	87	16	89	87	54		95
April	141	100	10	109	113	85	5	-
May	137	81	70	100	104	81	54	003
June	154	94	23	47	49	64	58	1,020
Totals	1,577	1,164	288	1,361	1,398	821	192	3,34
	Shoes	Shoes	Boots	011 C	Rubb	Сітіz	ens' Clo	THES.

	Œ.	Ž	8	Coats	ber			
Month.		Repaired_		ats .	r Boots	Pants	Coats	Vests
1888—July August September October November December 1889—January February March April May June Totals	92 90 97 73 85 91 140	56 60 52 48 35 54 49 53 23 59 47 71	1 5 4 4 4 2 1 1 2 1 2 1 25	24	24	12 6 8 13 12 11 9 9 6 11 11 6	15 6 9 10 13 10 8 7 7 9 10 4	1

## REPORT OF PHYSICIAN.

STATE PRISON AT FOLSOM, June 30, 1889.

CHAS. AULL, Warden:

Sir: I have the honor to hand you my report of the Medical Department

of this prison for the fiscal year ending June 30, 1889.

Since my last report the health of the prisoners has been unusually good; I have had only six deaths to record, three of which died from violence—one received a gunshot wound in attempting to escape, from which he died; one received injuries in jumping from a train, from which he never recovered; and one other was killed by the fall of a derrick while at work on the canal—two died of phthisis pulmonalis, and one from septecemia, making our death rate 1.22 per cent of the prisoners confined.

The diet and clothing of the prisoners have been ample and of good quality; the sanitary rules rigidly enforced. These facts, including a good climate, have been the cause of our low death rate. Formerly Folsom was considered a very unhealthy locality; there were a number of large reservoirs located in its vicinity; now that hydraulic mining has been abandoned they have been discontinued, and the result has been to make this one of

the healthiest places in the State, as our death rate will show.

A great source of trouble in the management of prisoners heretofore has been the opium habit; but I am able to state that for the past year I have been troubled but very little. There has been a number come here confirmed users of the drug; in a short time after their arrival they were cured, and now are as good and faithful laborers as we have.

There are a number of minor improvements that I could suggest, but

they can be postponed until we have more time.

I thank you and your efficient corps of officers for the many acts of kind-

I am, very respectfully, your obedient servant,

THOS. B. EAGLE, Physician.

Patients Admitted t	TT 1. 7 1	12: 3 37	 T 40 -000

		First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Total.
Calls on Physician Daily average			1,113 12	1,037	1,052	
Men excused from labor		482	529	481	567	2,0
Daily average		5	6 13	5 12	6 22	
Patients discharged from hos	4	10	12			
Patients admitted to hospital		3	1		. 4	
Name.	Nat	ivity.	Di	sease.	Date	of Death.
Wright	Iowa		Carbune	cle		uly 5, 18
Sullivan Powers				3 3	. Septem	ber 30, 18
Vickery*	Maine		Gunsho	t wounds.	. Ccto	ber 14, 18
Morey†	Iowa		. Pneumo	onia	. Janu	ary 11, 18
Smith‡	Holland				-	[ay 18, 18

<sup>\*</sup> Vickery died of gunshot wounds received in attempting to escape.
† Morey died of traumatic pneumonia received in attempting to escape from the Sheriff.
‡ Smith killed instantly by the fall of a derrick.

Name.	Disease.		dmitted.	Discharged.	Days in the Hospital	Date of Death.
ДАШЬ.	2750000	1	amiliou.	Disouting Gui.	n the	Date of Date.
Wright	Carbuncle	June	30, 1888		6	July 5, 1888.
Hubbard	Rhus tox	July		July 17, 1888	4	
Sullivan	Phthisis		15, 1888		45	Sept. 30, 1888.
Pruett	Punctured wound		18, 1888	Aug. 22, 1888	5	
Powers	Phthisis		25, 1888		18	Sept. 12, 1888.
Sanford	Insane		20, 1888	Sept. 21, 1888	1	
Aleck	Malaria	Sept.	29, 1888	Sept. 30, 1888	1	
Feli8	Contused wound	Oct.	12, 1888	June 21, 1889	251	
Campbell	Incised wound	Oct.	12, 1888	Oct. 21, 1888	9	
Vickery*	Gunshot wound	Oct.	14, 1888			Oct. 14, 1888.
Foster	Malaria	Oct.	28, 1888	Oct. 30, 1888	2	
La Boquet	Malaria	Oct.	29, 1888	Nov. 4, 1888	5	
McCarty	Contused wound	Nov.	5, 1888	Nov. 9, 1888	4	
Rooney	Erysipelas	Nov.	14, 1888	Nov. 17, 1888	3	
La Boquet	Malaria		15, 1888	Nov. 17, 1888	2	
Videll	Contused wound	Nov.	23, 1888	Dec. 5, 1888	12	
Mullen	Punctured wound	Nov.	29, 1888	Dec. 3, 1888	4	
Taylor	Rheumatism	Dec.	5, 1888	Dec. 21, 1888	16	
Franklin	Vertigo	Dec.	20, 1888	Dec. 22, 1888	2	
Calzado	Contused wound	Dec.	27, 1888	Jan. 5, 1889	9	
Pratt	Neuralgia	Jan.	3, 1889	Jan. 7, 1889	6	T 11 1000
Morey †	Pneumonia	Jan.	5, 1889	Tom 14 1000	5	Jan. 11, 1889.
Donohue	Malaria	Jan. Jan.	9, 1889	Jan. 14, 1889 Jan. 26, 1889	2	
Ansburo	Malaria		24, 1889	Jan. 26, 1889 Feb. 19, 1889	12	
Meza Kiernan	Cough	Feb.	7, 1889 13, 1889	Feb. 16, 1889	3	
Lvons	Nervous	Feb.	22, 1889	Feb. 28, 1889	6	
Milne	Felon	Feb.	23, 1889	Mar. 2, 1889	l ř	
Marsh	Influenza	Feb.	25, 1889	Mar. 2, 1889 Mar. 2, 1889	5	
Gonzales	Influenza	Mar.	3, 1889	Mar. 7, 1889		1
Schwartz	Influenza	Mar.	14, 1889	Mar. 20, 1889	6	
Franklin	Epilepsy	Mar.	17, 1889	Mar. 20, 1889	3	
8mith	Orchitis	Apr.	3, 1889	Apr. 7, 1889	4	
Rooney	Malaria	Apr.	3, 1889	Apr. 9, 1889	6	
Doane	Sciatica		14, 1889	Apr. 19, 1889	5	
Ah Ling	Malaria	Apr.	14, 1889	Apr. 17, 1889.	. 3	
Talbot	Sprained ankle		14, 1889	May 17, 1889	34	
Miller	Contused wound	Apr.	20, 1889	Apr. 24, 1889	4 2	
Marrone	Malaria	Apr.	27, 1889	Apr. 29, 1889		
Smith ‡	Malaria	May	16, 1889	May 16, 1889	1	Mov. 10 1000
Thompson	Malaria	May May	18, 1889 30, 1889	June 2, 1889	3	May 18, 1889.
Harley	Pneumonia	May	30, 1889	June 2, 1009	9	
Lundquist	Contused wound	May	30, 1889	June 2, 1889	3	
Loder	Dysentery		2, 1889	June 4, 1889	2	
Kivers	Dysentery	June	5, 1889	June 13, 1889	8	
Peterson	Pneumonia					
Votton	Rock in eye	June	14, 1889	June 20, 1889	6	
₹.#cDonald (	Remittent fever	June	16, 1889	June 19, 1889	3	
Davis	Remittent fever	June	16, 1889	June 20, 1889	4	
Clark	Remittent fever	June	20, 1889	June 23, 1889	3	
Nelson	Cont. and lac. wou'd.	June	21, 1889			
Davis Blumman	Remittent fever		22, 1889.	T 07 1000		
Blummer	Dysentery:	June	25, 1889	June 27, 1889	4	
<u>'</u>	· · · · · · · · · · · · · · · · · · ·				<u>'</u>	<u></u>

Total number admitted to hospital, 54.

<sup>\*</sup>Vickery died of gunshot wounds received in attempting to escape.

Morey died of traumatic pneumonia, received in attempting to escape from Sheriff.

Smith killed instantly by the fall of a derrick.

#### Calls on Physician.

DISEASE.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Total.
Asthma	l	2	l		
Bilious	45	59	43	50	197
Boils	ii	41	54	35	141
Bronchitis		21	7		
Carbuncle			l <b>`</b>	5	29
Catarrh	14	10	25	14	a di
Cholera morbus		4			vaj
Colic	29	39	28	48	1/2
Constipation	44	56	50	55	205
Coryza		ő		1	. 200
Cough	84	168	126	60	
Diarrhœa	. 61	41	36	114	9500
Dysentery	01	6		15	438 252 21 22 14
Eczema	14	š			2]] 96
Erysipelas	3	11			46
Exostosis	8	**			19
Felons	31	17	19	24	Di:
Hemorrhoids	13	8	17	21	91 59 34
	15	19	11	21	90
Hernia	8	10			
Herpes	14	24	19	25	8 82 77
Indigestion	14	2/1	77	20	844
Influenza	9		1 11		m
Lumbago			8		99 209
Lupus	2	162	61	10	203 552
Malaria	184		27	145	30%) ma
Neuralgia	8	29	21	8	72- 13-
Odontalgia	7	6			10
Otorrhœa.	7				13
Ozeana			- <b></b>	4	40
Paralysis			.8	6	14
Phthisis	10	17	17	25	69 6
Ptyalism		6			
Rheumatism	35	39	55	38	197
Rhus tox	9			18	27
Rock in eye				9	
Scrofula	16	21	14	16	67 217
Sprains	73	60	28	56	
Syphilis secondary	23	8	19	8	58
Tonsilitis	4				43
Vertigo		2	<u></u> -	<u></u> ;	
Wounds, contused		110	203	175	486
Wounds, incised		12	20	7	30
Unclassified	99	98	76	61	334
Total					4,08

# ELEVENTH ANNUAL REPORT

OF THE

# STATE BOARD OF PRISON DIRECTORS

OF THE

STATE OF CALIFORNIA,

FOR TH

FORTIETH FISCAL YEAR, ENDING JUNE 30, 1890.



## SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# STATE BOARD OF PRISON DIRECTORS.

R. T. DEVLIN, President	
CHARLES SONNTAG	San Francisco.
E. J. DEPUE	
JOSEPH CRAIG	
P. REDDY.	San Francisco.

# OFFICERS OF THE SAN QUENTIN PRISON.

JOHN McCOMB	
J. V. ELLIS	
BENJ. CHAMBERS.	
B. DOUGHERTY	
E. A. REDDY	
Dr. F. C. DURANT	
JOHN McCOMB. Jr.	

## REPORT.

November 15, 1890.

To his Excellency R. W. WATERMAN, Governor of California:

In compliance with law the State Board of Prison Directors submit to you their annual report for the fiscal year ending June 30, 1890.

Reports have been prepared by the principal officers of the institutions under the superintendence of the Board, showing the management of these institutions for the last year, and they are appended to this report for fuller information. They also show what has been done under the various appropriations made at the last session of the Legislature.

In addition to the matter contained in the reports of the subordinate officers, there are several matters to which the Board desires specially to

draw your attention.

1. It will be necessary for the Legislature to determine to what uses the power derived from the dam and canal at Folsom shall be put, and to make the necessary appropriations for the erection and equipment of such manufactories as in their judgment may best be carried on. We will not repeat the history of the building of the dam and canal, nor speak of the advantages that will be derived from the power at the command of the State. These matters are familiar to you. But inasmuch as the quantity of power belonging to the State will soon be capable of utilization, the question as to the manufacturing industries that shall be carried on at Folsom becomes an important one, and in its solution will arise two considerations—profit to the State, and non-injury to free labor. The Board have concluded it to be unnecessary to formulate plans for the building of manufactories, preferring to submit the facts to the Legislature.

2. It will be necessary to make an appropriation to complete the Preston School of Industry at Ione. The last Legislature made an appropriation of \$160,000 for the purchase of grounds, water power, and

erection of buildings, maintenance, etc.

This sum was named on the supposition that the school would be erected at Folsom, where it could be built with convict labor, and where the material for construction would be free. When it was provided that the school should be located in Amador County, where it became necessary to purchase land, water, and building material, the amount of the appropriation was not increased. It would be a waste of words to speak of the necessity of the speedy completion of such an institution. California has been derelict in the duty she owed to the young offender, whose life was tending in the direction of vice. In both of our State Prisons are many boys who, instead of being subject to that reformatory influence exercised by an industrial school, are necessarily, under the congregate system followed in our prisons, learning from older and more experienced criminals the love and the art of crime.

3. The care of the criminal insane is a subject that deserves careful possideration. In reports in the past we have called attention to this matter, and finally the Legislature made an appropriation for this

purpose, and provided for the erection of a building at San Quenting The Board called to their assistance Drs. Wilkinson and Hatch, Superintendents of State Insane Asylums, and they recommended that a building be erected outside of the prison inclosure, claiming that the health and mental condition of the inmates would be improved by place ing such prisoners as became insane in prison in a structure removed some distance from the prison itself, and erected with a view to its use and benefit as an asylum for the infirm in mind, rather than as a prison, where security should be the main object. The adoption of these suggestions would call for an expenditure of more money than was available for the purpose, and hence the matter has remained in statu quo. Plans, however, have been prepared for utilizing a portion of the prison buildings for this purpose, but no action has been taken on them.

In this connection we deem it our duty to urge upon you, and through you the Legislature, to make suitable provision for the criminal insane, those who may become insane in prison, and those who may commit crime through insane impulses, and while they are legally guiltless, are unsafe to be at large, and who, if placed in an insane asylum would exercise a deleterious influence over the other inmates. Such an institution is in operation at Auburn, New York, and Illinois is building one at the State Prison at Chester.

For the purpose of showing the necessity of properly caring for the criminal insane, we subjoin the following extract from a report of Carlos F. McDonald, M.D., Medical Superintendent of the State Asylum for Insane Convicts, at New York:

From a somewhat extensive observation of several years, respectively, of the criminal and non-criminal insane, I am led to believe that the element of crime, when interwoven with insanity, exerts a modifying influence upon the mental manifestations of that disease, and that to this extent, in a large porportion of cases, the criminal insane, medically speaking, may be regarded as a distinct and separate class, the analogue of which is not found among the ordinary insane. They present certain characteristic mental peculiarities which experience in observing this class enables one to recognize as the indelible stamp of crime, and although the line of demarkation may not always be apparent to the casual observer, its existence, as a rule, can be discovered and demonstrated if time and facilities for careful observation be had.

In my experience with the criminal insane, now nearly five years, I have been struck with the frequency of cases in which there was an absence of expressed delusions, although the manner and conduct of the individual were clearly indicative of a delusional state. Comparing these individuals with their former selves, we find undoubted evidence of a departure from their normal mental state. They have become sullen morose, and morbidly irritable. They rebel against the ordinary rules of discipline, and make unprovoked assaults upon those around them without apparent motive and without make unprovoked assaults upon those around them without apparent motive and without offering any explanation therefor. That they are suffering from impairment of bodily functions is shown by sleeplessness, loss of appetite, coated tongue, foul breath, constipation, a greasy condition of the skin, and a livid, puffy appearance of the extremities, indicating a relaxed condition of the blood vessels. They are generally coherent in conversation, do not complain of being ill, nor apply for medical treatment. They frequently continue in the performance of their allotted tasks in prison for months before the attention of those in daily contact with them is attracted to their mental disturbance. From this condition they either recover or gradually drift downward to complete dementia, with no outward exhibition of delirium or mental excitement to mark the course of their disease. The occurrence of acute, delirious mania, according to my observation, is exceptional among the criminal insane, melancholia and dementia, with an occasional case of sub-acute mania, being the predominant types of insanity observed

A certain proportion of cases, and usually those of hardened criminals, are characterized in their mental manifestations by the most pronounced vicious tendencies, their insanity apparently expressing itself in a marked exaggeration of the depravity and vice displayed by them prior to the onset of the disease. On the mental side this is substantially the only evidence of disease which these cases present. Physically, however, their condition is marked more or less by the signs of bodily impairment above referred to Being known to the authorities as abandoned and depraved individuals, it is not surprising that their insanity is not recognized by casual observers when it expresses itself in the manner I have indicated.

We may readily admit such cases into the category of mental disease, without in any way countenancing the dogma that insanity and crime are convertible terms. The conduct of such cases, when first admitted to the asylum, is characterized by the most striking evidences of depravity.

They are profane and obscene in language; tear and destroy clothing, bedding, and furniture; strike, steal, lie, and soil themselves and their surroundings, apparently from mere wantonness. They sleep badly, and display the resistance to the efforts of sleep-producing remedies common to lunatics. They are generally alike indifferent to coercive measures and to comfort, and it is only by constant and persistent endeavor, firmly but kindly applied by those in immediate charge of them, that they can be trained into decent habits and deportment. From the foregoing, it might naturally be inferred that the successful management of the criminal insane would involve greater difficulties than are encountered in the care of the ordinary insane; and such was my belief in the earlier period of my experience with this class, but further observation and experience have served to convince me that, with facilities especially adapted to its needs, an asylum for served to convince me that, with facilities especially adapted to its needs, an asylum for the criminal insane can be conducted on the same general principles, and with as good results, except in the matter of cures, as are hospitals for the ordinary insane. Visitors passing through the wards of this asylum are struck by the marked absence of noise or disturbance of any kind, this being the usual condition night and day. They not infrequently ask to be shown "the violent cases," and "those you have to keep tied up in their cells," or in "straight jackets," and when informed that no mechanical restraint of any kind is used here; that we have no cells; that there is no "disturbed" ward; and that the patients they have seen are the worst cases we have, they are apt to look incredulous and doubting, apparently being unable to realize that criminal lunatics are controlled by kindly influences, and that order and quietude prevail among what they had supposed to be the most violent class of insane. The principal difficulties encountered in the management of this institution are the prevention of escapes and a propensity of homicidal patients to obtain and conceal articles for the purpose of using them as weapons of assault. To prevent these occurrences involves the exercise of constant care and vigilance.

Cases of simulated insanity are obviously of much more frequent occurrence here than in general asylums. They, of course, are troublesome while they remain with us, but detection is not difficult, and is immediately followed by a return to prison. If it were the rule, and generally so understood in the prisons, that a convict detected in an attempt to feign insanity should forfeit the commutation of sentence allowed him for good conduct, it would, I believe, render such attempt of rare occurrence.

Insane criminals, particularly of the convict class, in their efforts to escape, frequently display a wonderful combination of shrewdness, cunning, and ingenuity. Patients of both classes, who have committed crimes against the person, are more dangerous but less inclined to escape than those who have committed crimes against property.

And Dr. G. G. Tyrrell, in an address before the State Medical Society, in 1882, said:

The only remedy presented to us to obviate this manifest and glaring wrong to our fellow beings, who, although insane, are not criminal, and to those who are both criminal and insane, is a separate and special provision for the care and custody of the criminal insane, and this in the erection by the State of a suitable asylum constituted and adapted to this special purpose, since the inmates intended for its occupancy, although insane, are still dangerous outlaws and criminals, retaining for the most part all their criminal characteristics and vicious proclivities.

4. The prison buildings at San Quentin were erected many years ago, and are built in a manner that would not at the present day be

It would seem the part of wisdom to rebuild some of the old structwes, as to put them in a proper state of repair would be as expensive

In conclusion, we desire to acknowledge the many courtesies extended

Respectfully submitted.

ROBERT T. DEVLIN, J. CRAIG, EDGAR J. DEPUE, P. REDDY. State Board of Prison Directors.

## REPORT OF THE WARDEN

OF THE

STATE PRISON AT SAN QUENTIN, CALIFORNIA.

## WARDEN'S REPORT.

WARDEN'S OFFICE, SAN QUENTIN PRISON, July 31, 1890.

To the honorable State Board of Prison Directors:

GENTLEMEN: I have the honor to submit herewith my annual report for the forty-first fiscal year, accompanied by the report of the Clerk, showing the financial transactions of the prison, in the form of tabular statements. I also submit the statistical reports of the prison population.

The financial condition of the prison at the end of the fiscal year, as shown by the Clerk's books, is as follows:

Cash in the State Prison Fund Cash on hand and in bank Due from sundry debtors Balance of appropriation for fortieth fiscal year	47,432 1,901	07 89
Less liabilities on account of unpaid bills and salaries	\$166,970 40,054	
leaving a net surplus of available cash resources at the end of year	\$126.916	32

Adding to this amount the sum appropriated for the maintenance of the prison—\$155,000—we have a total of \$291,916 32, which will meet all expenses for the current year, without taking into account any profits that may be realized from sales of jute goods, the only industry now followed.

Under your instructions, the manufacture of doors and sashes was discontinued prior to the beginning of the forty-first fiscal year; and, as all other industries have been abandoned, the sale of jute goods is the only source from which any additional revenue can be expected.

The operation of the jute mill during the past year was confined to the manufacture of grain bags, and this policy has been fully justified by the unprecedented demand made upon us by the farmers of the State. The published estimates at the beginning of the season predicted that the yield of grain would fall far short of the average, on account of the prolonged rainstorms of last winter, which interfered with the preparation of the ground for seeding, and had even drowned out some of the summer-fallowed farms. It was considered, by experts, that the stock of grain bags in the hands of dealers carried over from omer years, would be more than sufficient to cover any possible emand. Farmers were not sure of the quality of their growing crops, ed, feeling uncertain as to the yield, were inclined to wait until a later ate than usual to procure the grain bags likely to be needed by them. he demand, therefore, did not commence until late in May; but when Muiries once began, our bags seemed to be in greater demand than in by previous season, and before the end of June our stock had become Impletely exhausted. Notwithstanding that circular notices were then to all parts of the State that we could not accept any further Pers before stated future dates, the receipt of orders was checked only

to a limited extent, and by the end of the month orders were booked for all the bags that the mill could turn out up to the end of July; and, in many instances, where the farmers desiring to purchase had alread made arrangements for threshing at an earlier date than we could supply the bags, we were compelled to decline their orders and return remittances.

During the past year raw jute was held at higher prices in India that it had ruled for several years prior. The cost of this raw material consumed during the year was about five eighths of a cent per pound more than it had been during the previous year, and the cost of manufacture.

ing a bag was therefore correspondingly increased.

The grain growers of this State evidently had apprehensions in the early part of the year that the price of grain bags would advance to unusually high figure, and therefore a request was presented to you honorable Board, by a committee representing the Order of the Patron of Husbandry, and bearing a petition signed by farmers located in all parts of the State, to sell the grain bags manufactured at the prison at cost, or at a very small margin above the cost of manufacture. Acting upon these representations, your honorable Board decided at the begin ning of the season to fix the selling price of the San Quentin grain bags at the lowest possible figure which would not entail a loss upon the State, and the price so fixed—6½ cents per bag—was adhered to from the date of your order, on the tenth of May, to the end of the season Your action in thus assuring the farmers that the prison grain bas could be purchased at a fixed low price, had the immediate effect of checking the upward tendency of the bag market at the time, and probably prevented the formation of any contemplated combination "ring" of dealers in bags, who could otherwise have forced farmers to pay almost any price for the bags necessary to transport to market their season's crop of grain, which it soon became apparent was very much better than had been anticipated.

The farming community was therefore greatly benefited by your action; but the realization of any large profit to the State from the sale of grain bags was put entirely out of the question, and consequently the profits derived from the sales during the past year do not at all compare with those of the preceding year, amounting to but \$17,770 %

as against \$80,926 86.

The following statement shows the operations of the jute mill for the year, in detail:

STATEMENT OF OPERATIONS OF JUTE DEPARTMENT FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

30, 1890.		į.
Raw jute on hand July 1, 1889	1,408 10,000	bales bales
Total Less raw jute on hand June 30, 1890	11,408 3,859	bales bales
Total  Less number of bales rejected on account of damage Used in manufacturing during the year	118	bales bales bales
7,537§ bales at 400 pounds equal	014,950 p	100000000000000000000000000000000000000
· · · · · · · · · · · · · · · · · · ·	10,303 p	ounds
Net amount of raw jute used during the year	025,253 p	ound

#### GOODS MANUFACTURED.

33,736 cuts = 3,373,600 yards 45-inch burlap; 509 cuts = 50,597 yards 36-inch burlap. Joial, 3,424,197 yards.
Three-ply twine, 4,220 pounds; five-ply twine, 63,323 pounds; of which amount 47,290 pounds were used in sewing bags, and 3,878 pounds in baling goods.
Number of grain bags made during the year out of burlap manufactured, 3,026,600.

#### SPINNING AND WEAVING EXPENSES.

Coal	15,117 68 5,391 39 11,259 18 2,614 17 619 80 1,550 39 126 80
Less expense incurred in sewing bags and keeping sewing machines in repair:	\$62,502 67
Say five per cent of coal       \$890 41         Say ten per cent of sizing       334 37         Say five per cent of machine oils, etc.       87 66         Say ten per cent of tools and repairs       1,511 77         Say five per cent of salaries       562 96         Say ten per cent of gas       539 14         Say five per cent of water       130 71         Say five per cent of miscellaneous       77 52	
bay five per cent of infiscentaneous.	4,134 54
Net expense of spinning and weaving 3,424,197 yards of cloth	\$58,368 13
Sewing Expenses.	
Percentage of gross spinning and weaving expenses, as per statement above-47,290 pounds twine manufactured and used in sewing bags, at 5 cents	\$4,134 54 2,364 50 1,817 90
Total expense of sewing 3,026,600 grain bags	\$8,316 94
Baling Expenses.	
4 yards of 12-ounce cloth at 5.2413 equals       22         10 ounces of twine at 5.0 equals       3         24 ounces of 8-ply manilla rope at 15.0 equals       22	.125 cents.
Total (per bale)	.3373 cents. .0967 cent. .0645 cent.
SHIPPING EXPENSES.	
	5.83 cents. 5.00 cents.
Fost of shipping one grain bag	0.83 cents. 0.062 cent. 0.041 cent.

Cost Pr	RICE (	<b>T</b> C	Goods	${\color{blue} \mathbf{Manufactured}}$	During	THE	YEAR	Ending	June	30,	1890.
				45-inc	h Burlan	o.					

40-inch Burtap.			
12 ounces of jute at 4.1005 per pound Waste 15 per cent		0.4613	3 cent
Waste 15 per cent Cost of spinning and weaving		1.7046	3 cent
Cost, looseBaling		5.2418 0.0648	
_	_		- 3
Cost in baleShipping	• • • • • • • • • • • • • • • • • • • •	0.0410	
Cost delivered in San Francisco (per yard)	·	5.3468	3 cents
22x36 Grain Bag.			
39 inches of 45-inch burlap, at 5.2413 cents per yard	. <b></b>	5.6781 0.2748	
Cost, looseBaling	- 	5.9529 0.0967	
Cost in bale Shipping		6,0496	- 3 centa
Cost delivered in San Francisco (per bag)			- :
\ <del>-</del>			
TOTAL OPERATING COST OF JUTE MILL FOR THE YEAR END		50, 189	
Total expenses incurred, including value of supplies on hand Jul Raw jute			),714 7( 1,738 9
Raw jute in process of manufacture Coal		17	7,808 2
Sizing Jute oil			3,531 fi
Cotton twine		j	3,171 5 1,985 0
Rope (bale)		1	L,542 60 L.817 4
Tools and repairs	<b></b>	17	7,331 4
Salaries Gas		5	1,259 1 5,391 3
Water		2	2,614 1 619 8
Insurance Miscellaneous Miscellaneous		. 1	1.559 \$
Freight on manufactured goods		1	1,710 %
Less value of supplies on hand June 30, 1890:		•	2,796 9
Raw jute	\$57,087 1,349		
Jute oil	253	44	
Sizing Cotton twine	187 167	80 70	-
Rope (bale)	167 141	00	
Machine oils and engineer's supplies Tools and repairs	$^{64}_{2,213}$		
Miscellaneous	9	15	.454 7
Net operating cost for the year			L,322 <sup>1</sup>
Divided as follows:			-j /4
Value of raw jute used	\$123,626 262	86 26	- 19 - 19 - 19
Net value of raw jute used in manufacturing	\$123,889	12	
Spinning and weaving expenses	58,368	13	
Sewing expenses Rope used in baling	1,401	68	, and the second
Rope used in baling Freight on manufactured goods	1,710		1,322
		— ф101	-,0-

Coope	0	D		V	ENDING	T	90	1000
COODS	OULD	DURING	THE	1 KAK	ENDING	JUNE	ου,	TOOL

#046.900 22x36 grain hags at 64 cents	\$133,048 50
206,900 22x36 grain bags, at 6½ cents	<b>4</b> 200,020 00
Less rebate for freight to San Francisco, bags being received on	
board vessels at San Quentin, at 50 cents per thousand 233 75	
	30,153 75
45,500 22x36 grain bags, at 6\frac{3}{2} cents.  180,000 22x36 grain bags, at 6\frac{3}{2} cents.  \$12,150 00  Less rebate for freight to San Francisco, bags being received on	3,071 25
190,000 22x36 grain bags, at 6g cents \$12,150 00	
Less rebate for freight to San Francisco, bags being received on	
board vessels at San Quentin, at 50 cents per thousand 90 00	12,060 00
69,000 22x36 grain bags, at 67 cents	4,743 75
6,500 22x36 grain bags, at 7 cents.	455 00
1,000 22x36 grain bags, at 7 cents	71 25
14.500 22x36 grain hags, at 71 cents	1,051 25
14,500 22x36 grain bags, at 7½ cents	3,855 00
144,300 22x36 grain bags, at 7\( \frac{3}{4} \) cents	11,183 25
13,500 imperfect grain bags, at 5 cents.	675 00
50 yards 45-inch burlap, at 6 cents	3 00
2,246 yards 45-inch burlap, at $6\frac{3}{4}$ cents	151 61
16,713 yards 45-inch burlap, at $6\frac{7}{2}$ cents.	1,086 36
33 yards apron cloth, at 7½ cents	2 48
50,597 yards 36-inch burlap, at 5 to cents 1 bean cloth, 30x30 feet	2,858 74
1 bean cloth, 30x30 feet	6 75
3 bean cloths, 40x40 feet, at \$11 75	35 25
2 bean cloths, 50x50 feet, at \$18 75	37 50 29 00
2 bean cloths, 45x45 feet, at \$14 50 31,700 pounds 5-ply twine, at 7 cents	2,219 00
4,220 pounds 3-ply twine, at 8 cents.	337 60
59,250 pounds jute rope, at 1\frac{1}{2} cents	669 60
235 nounds loom waste at I cent	2 06
235 pounds loom waste, at 1 cent 16,106 pounds loom waste, at 12 cents	181 19
3.77) nounds loom waste, at 14 cents	47 13
1,434 pounds card waste, at 1 cent	14 34
Issued and charged to departments of the prison:	
70 yards 45-inch burlap, at 6 cents	4 20
195 yards 45-inch burlap, at 64 cents 75 pounds 5-ply twine, at 6 cents	12 70
75 pounds 5-ply twine, at 6 cents	4 50
Drayage charged in bills	3 50
Net amount of sales	0000 054 51
Net amount of sales	\$208,074 51
PROFIT AND LOSS ACCOUNT.	•
Net amount of cales of inte goods during the year ending Tune 20, 1900	\$208,074 51
Net amount of sales of jute goods during the year ending June 30, 1890 Value of goods on hand June 30, 1890, at cost price	2,985 23
interest of Boords off Hariff affine so, 1000, as cost brice	2,800 25
	\$211,059 74
Deduct:	, , , , , , , , , , , , , , , , , , ,
Net operating expenses for the year \$191,322 12	
Value of goods on hand July 1, 1889 1,966 64	
	193,288 76
-	<del></del>
Net profit on goods sold during the year	\$17,770 98
0.9.34 per cent on cost price.	

The cost of maintaining this prison for the year, as per abstract of expenses, Clerk's report, has been \$210,949 42. The average number of prisoners under confinement was one thousand three hundred and eighty-one and one sixth, making the per capita cost per day 41.84 ents—2½ cents less than during the preceding year.

Several items of expense are now incurred in the maintaining of the prison, which did not exist in former years. One of them is the expense tached to running of the Corliss engine in the shop building, which mounted last year to \$6,434 91. Fuel in the shape of waste and refuse lumber, sawdust, and blocks, was formerly obtained from the sash and for and furniture factories in quantities more than sufficient to feed be boilers of this engine. All the manufacturing industries supplied the power by this engine have been abandoned, but the necessity for

running it still exists, as it is the only source from which we can deri power to drive the machinery in the carpenter shop and machine show the elevator to the Commissary Department, and to supply steam to general kitchen, laundry, and similar places. Whereas, formerly running of this engine cost practically nothing, the coal now consum by it is quite an item of expense, which must necessarily be charged the maintaining cost of the prison.

The hours of labor for the guards having been greatly reduced, a large force is necessarily employed, and the salary roll is corresponding

increased.

An additional item of expense is the cost of prisoners' clothing, no of the prisoners being permitted now, as ordered by your honorable Board, to wear any article of clothing not furnished by the bill of dress and they are now all clothed throughout with goods of distinctive many facture for prison use. The increase in expense on this account along amounts to about \$8,000 per year.

#### IMPROVEMENTS.

Appropriations were made by the last Legislature for repairs of old buildings, and for the erection of new buildings, as follows: For roof of cell buildings, \$4,000; for building for guards' quarters over lower gate, \$1,000; for front entrance building, offices, and officers' quarters \$10,000; for building for the accommodation of the insane prisoners \$20,000.

The old and leaky asphaltum roofs of the four cell buildings have been removed and replaced by first-class roofs of corrugated iron, and the cells are now protected from the rains. A commodious and substantial brick building for quarters for the guards has been erected over the lower gateway, and a very handsome structure has been erected a the front entrance; it presents a very imposing appearance, and need only the finishing touches to be ready for occupancy. The appropria tions for these much needed improvements have been carefully econe mized, and a small balance remains unexpended to the credit of each fund.

When the Superintendents of the asylums for the care of the insate met with the Prison Directors, by invitation, to consult on plans for that there existed a great difference of opinion as to the intention of the of humanity require that an insane person shall receive proper care, and dication about the ownership of the adjoining tract. public safety demands that the viciously insane shall be securely confined and prevented from doing injury to the community. Experience teaches that the ordinary safeguards of an asylum are insufficient detain the cunning criminals who wish to escape; even with all the procautions of walls, and armed guards, and constant watchfulness, the will always be a certain percentage of escapes from prisons, and it see to me that there should be no inducement held out for criminals to fell insanity in order to be transferred to quarters that can be easily "beaten as the criminals phrase it. For the safekeeping of the unfortunate co victs who are insane, and to defeat the schemes of those who preten insanity, the quarters for the accommodation of the insane prison

should be located within the prison walls, thus insuring greater security than can be looked for when the building is remote and without the protection of a patrol at night as well as in the daytime. A separate force and a separate staff of officers would be required for quarters without the prison walls, and the statute does not contemplate that expense. The Asylum Superintendents urged the choosing of a site at some distance from the prison, stating that, after spending the appropriation for the building and furnishing, then it would be proper to call on the Legislature for a further appropriation to maintain the new institution. These views were so strongly urged that there has been hesitation about choosing a site, and as the surroundings must necessarily determine the character of the plans, no selection has yet been made.

The Act making the appropriation is very brief; the title reads: "An Act to provide for the erection at San Quentin State Prison a building for the accommodation of the insane prisoners, and making an appropriation therefor," and the first section contains all that pertains to the quarters: "There shall be erected upon lands belonging to the State in connection with the State Prison at San Quentin a building of sufficient capacity to accommodate the insane prisoners of the State Prisons of the State, the same to be constructed under the direction of the Board of State Prison Directors."

I have submitted an outline plan for "a building of sufficient capacity to accommodate the insane prisoners of the State Prisons of the State," in accordance with the language of the statute, and I await instructions.

#### PURCHASE OF ADJACENT LANDS.

The money appropriated "to purchase adjacent lands for the use of the prison, together with improvements thereon," has been expended as follows: \$2,500 for ninety-five acres of tide lands, conveyed by assignees of Wm. T. Coleman, together with whatever interest they may have in about twenty acres more, adjoining; \$500 for two houses owned by Mrs. Jones; \$100 for house owned by D. Sutherland; \$100 for house owned by W. O'Grady; and \$300 to be paid for house owned by Mrs. Saultry when the estate of her late husband is settled by the Probate Court. The houses owned by John Mann and Henry Schlosser are still held by them, as they refuse to sell for the sums named in the appropriation. building for the accommodation of the insane prisoners, it was discovered Mrs. Edwards and her daughter refuse to sell their houses and the two ecres of tide lands. Negotiations for the purchase of land to straighten Legislature in making the appropriation, and the difference proved to making the appropriation, and the difference proved to change radical that no plans could be agreed upon at that meeting. The dictate the county road have not been completed, as there is some legal com-

#### IDENTIFICATION OF CRIMINALS.

The establishment of some system for the absolutely certain identifition of criminals has always been deemed of the utmost importance prison and police officials, who often found themselves at a loss, even th the aid of photographs, to determine positively and beyond a doubt identity of suspected criminals. Numerous attempts were made to vise such a system, but all of them were found defective, until at last French official conceived the idea that the proportions of certain parts the human body remained fixed and unchangeable after maturity,

and that the measurements of these parts were not exactly alike in an two persons. After years of experiment a system of measurement based upon these facts, was devised by the officer and adopted by the French police, by which they were enabled to accurately determine the identity of any person whose description was in their possession. The system, called the "Bertillon," after its inventor, proved so successful in France that other countries are following the example and adopting the same.

REPORT OF STATE BOARD OF PRISON DIRECTORS.

The "Wardens' Association, for the registration and identification of criminals," was organized in the United States, its founders believing that the Bertillon system of measurements, if adopted by all the print cipal prisons of the United States, would prove a strong factor in protecting society from the ravages of confirmed criminals, many of whom escape merited punishment through want of identification, or, if convicted, upon a plea of first offense. At the earnest request of its President dent, your honorable Board authorized me to become a member of the Wardens' Association, and the Bertillon system of measurements was introduced at this prison. The following description of what this system is may prove of interest: The instruments and apparatus used consist of two pairs of sliding compasses, one of large size for the foot, forearm, fingers, and a smaller pair for the ear; graduated measures for height arms, and trunk; a square, and stools, tables, etc. All the instruments are of French make, their measuring scales being based upon the metric system.

Measurements are taken as follows, the subject being barefoot and in his shirt sleeves:

First—Height of person standing.

Second—Length of outstretched arms from finger tip to finger tip, the arms being extended at right angles to the body.

Third—Length of trunk from bench to the top of the head of person seated.

Fourth—Length of head from cavity at root of nose to remotest point of the back of the head.

Fifth—Width of head between the two points most remote from each other, over the ears, and on a horizontal plane at right angles to the measurement of length.

Sixth—Length of ear from top of the rim to the lowest point of the lobe.

Seventh-Length of left foot.

Eighth—Length of left middle finger from point of knuckle to the tip of the finger, the finger being placed at right angles to the back of the hand.

Ninth—Length of left little finger, determined in the same manner as that of middle

Tenth—Length of left forearm from the point of the elbow to the tip of the farthest projecting finger, the elbow being placed at a sharp angle with the upper arm.

Eleventh—Analysis of color of the left eye: (a) Color of inner circle (central) pigment.

(b) Color of the extreme (peripheric) circle.
 (c) Possible confusion of the pigment (a) with an adjoining class.

(d) Peculiarities. Twelfth—The nose:

(a) Profile of the ridge, root, and base.

(b) Dimensions: length, projection, and breadth.

(c) Peculiarities.

Thirteenth—The inclination, apparent height and width, and peculiarities of the fore-

Fourteenth—Marks and scars: nature and origin, direction or inclination, approximate dimensions and accurate location with regard to specified parts of the body.

Besides the foregoing measurements, two photographs are taken of each subject; one showing the profile of right side of the face, the other the full face.

The Bertillon system has been adopted by about twenty penal instill

tutions in the United States, and all descriptions are forwarded to and filed in the central office of the Wardens' Association, at Chicago.

#### AN ATTORNEY FOR THE PRISON.

The need for the services of an attorney is shown in the frequent calls upon the Warden to produce prisoners in Court, and show why they should not be set at liberty on some very fine technical point that may arise from a clerical error in making out the commitment from the judgment roll, or from some theory of law on which even the Judges of the Supreme Court entertain a difference of opinion. The Warden should be authorized to employ an attorney whenever needed, or there should be a legal adviser attached to the official staff of the State Board of Prison Directors.

I am now defendant in three suits brought by released prisoners, who were held in custody in accordance with the terms of their commitments, and they have set up claims for damages, although the Supreme Court was at first divided on the point at issue, and re-submitted the eases for hearing before the full Court. Even after the Supreme Court has decided the question (that imprisonment in the State Prison in satisfaction of a fine is not a valid sentence), prisoners have been committed by judgments couched in exactly the same words as those set aside as invalid.

Occasionally I am called upon to notify a District Attorney that the commitment of a prisoner seems to me to be defective, and inquiry discloses the fact that the Clerk of the Court has made an error, which can be easily corrected by making a new commitment. Sometimes the defect is beyond remedy, and the prisoner profits by the error; sometimes the point is not readily determined, and the skill of a lawyer is necessary to arrive at the proper conclusion.

#### PENALTIES FOR OFFENSES.

The Penal Code makes it a punishable offense to bring into the prison a letter, or any writing, or to take out any letter, or anything from a convict, without the consent of the Warden, but any evil-disposed person may bring in opium or intoxicating liquors, or even explosives, or frearms, and there is no way to punish the offender, under the laws, for that offense. A bill should be prepared to present to the Legislature to fix a penalty for such offenses.

I desire to return my thanks to you, gentlemen, and to the officers of the prison, for unvarying courtesies.

Very respectfully,

JOHN McCOMB. Warden.

## CLERK'S REPORT.

#### TABLE No. 1.

Cash Receipts of the State Prison at San Quentin during Forty-first Fiscal Year, ending June 30, 1890.

DATE.	General Appropriation.	State Prison Fund.	Jute Revolving Fund.	Appropria'n for Roofing Cell Bldgs.	Appropria'n for Front Building.
1000 I1-		#00 400 E4	#4 000 00		
1889—July	\$18,832 50	<b>\$26,488 54</b>	\$4,800 00		
August	918,852 BU		27,045 10		
September		12,243 56	5,482 70		
October	14.000 51	23,246 54		40.001.10	
November		20,435 63	15,773 00		
December		15,825 17	8,908 64		
1890—January		5,988 55			
February	39,187 25	478 48	312 50		\$271 00
March	22,474 23		44,199 45		
April	25,597 13		716 90		
May	24,202 66	369 43	9,438 90		2,496 22
June		6,856 29	33,377 70		
Totals	\$159,118 19	\$111,932 19	\$150,054 89	\$3,601 12	\$2,920 32
	<u> </u>	ļ	<u> </u>	<u> </u>	<del> </del>
	Appropria'n	United	Commissarv	Foundry	Furniture
DATE.	for Lower	States.	Departme't.	Departme't.	Departme't.
	Gate Bldg.	States.	Departme t.	Departme t.	Debarrine r
	<u> </u>	ì –	i .	<u> </u>	<u> </u>
1889—July			\$157 29		
Angust		\$1.133 50	140 64		
Sentember		ψ-,150 00	171 91		
October		[	172 08		
November	\$5Q5 88		168 10		
November December	111 34	1,234 55	214 96		
1000 Tamasan	111 04	1,204 00	149 37		
1890—January	169 50	1,238 85	133 30		
February March	100 02	1,200 00	123 38	\$3 00	
March				90 00	
April May		1 550 50	140 44		# OK
мау		1,750 50	122 11		7 25
June			167 32		
Totals	\$875 74	\$5,357 40	\$1,860 90	\$3 00	\$15 25
	<u> </u>	<del> </del>	<u> </u>	! !	<del> </del>
DATE.	Hospital	Jute <sup>-</sup>	Stock	Turnkey	Board and
DATE.	Departme't.	Departme't.	Departme't.	Departme't.	Rent.
	<u> </u>	<u> </u>	<u> </u>	1	·
1889—July	\$33 75	\$7,898 68	\$16 50	\$130 22	\$61 91
August	29 85	10,953 43	25 50	134 50	58 06
September	24 30	1,441 65	104 00	149 15	131 48
October	22 80	169 25	51 50	130 23	69 12
November	21 30	3,252 78	77 75	130 48	83 48
	21 20	433 70	38 25	131 90	59 10
December 1890—January	11 80	139 59	38 25	244 97	61 02
		11 73	33 50	162 52	69 41
February	21 05	575 71	31 50	105 75	80 38
March	17 45		35 13	138 36	85 54
April	23 85	13,441 62			85 54
May		41,701 58	27 00	147 63	91 8
June	15 35	132,377 16	22 50	137 45	
Totals	\$274 40	\$212,396 88	\$501 38	\$1,743 16	\$936 86
	<u> </u>	<u> </u>	<u>'                                      </u>		<u>'</u>

#### TABLE No. 1-Continued.

DATE,	Gas and Water.	Miscellaneous.	Total.
Balance on hand, June 30, 1889			\$45,863 0
1889—July	\$16 40	*\$214 00	39,817 2
August	12 90		58,365 9
· September	20 60		19,769 3
October	18 20	4 95	23,884 6
November	28 10	2 45	58,853 7
December	31 60		41,159 1
1890—January	30 00	30	6,663 8
February	38 65		42,137 4
March	31 57		67,799 1
April	22 64	1 30	40,196 5
May	21 62	60	80,394 8
June	21 50	†189 90	173,256 9
Totals	\$293 78	\$413 50	\$698,161 9

<sup>\*</sup>July, 1889—Miscellaneous account. This amount consists of one half cost of advertising for applies received from State Prison, "Folsom."
† June, 1890—Miscellaneous account. This amount consists of one half cost of transportation of fity prisoners and six guards from San Quentin to Folsom and return.

#### TABLE No. 2.

Cash Disbursements of the State Prison at San Quentin during the Forty-first Fiscal Year, ending June 30, 1890.

		.,		
DATE.	State Prison Fund.	Jute Revolv- ing Fund.	Raw Jute, Freight, and Insurance.	Merchandise.
1889—July	<b>\$39,086</b> 33	\$4,800 00	\$4,800 00 27,045 10	\$16,449 37 15,677 89
August September October	857 44	17,209 44	21,010 10	10,011 69
October	00, 11	2,,200 11	5,482 70	13,755 21
November	••••••		15,773 00	23,583 94
December			18,680 00	12,397 86
1890—January February March				
February			312 50	25,166 17
March			44,199 45	13,658 28
April May June	1 000 00	94.005.05	716 90	14,949 97
May	1,000 00 15,819 35	34,225 25 93,820 20	9,438 90	13,423 42
June	19,619 30	95,820 20	33,377 70	
Totals	\$54,763 12	\$150,054 89	\$159,826 25	\$149,062 11
DATE.	Materials.	Salaries.	Salaries of Employés.	Allowance in Lieu of Board.
1889—July	<b>\$</b> 641 <b>7</b> 7	\$5,170 00	\$970 00	\$303 80
1889—JulyAugust	260 70	5,130 00	970 00	249 20
September	247 24	5,223 56	970 00	252 70
October	. 240 53	5,340 81	970 00	282 10
November	495 85	5,277 73	970 00	282 10
December	497 05	4,963 33	827 49	258 30
1890 January	9 750 01	5,122 58	861 12   970 00	316 40 303 80
February	3,752 91   100 90	5,242 80 5,425 92	970 00	303 80
March	123 05	5,702 68	1,107 90	311 50
April May	1,256 39	5,702 42	1,120 00	325 50
June		5,957 87	1,120 00	337 50
Totals	\$7,616 39	\$64,259 70	\$11,829 18	\$3,526 70
100018	**,	¥3-,-01 11	,,	4-1

TABLE No. 2-Continued.

DATE.	Discharged Prisoners.	Transporta- tion of Prisoners.	Escaped Prisoners.	General Expense.	Expense of State Prison Directors,
1990 T1	0047.00	4004.05		.00.40.00	
1889—July	. \$215 00	\$224 35		\$343, 03 143 37	\$788 d
August	. 210 00	160 60	<b>\$</b> 6 00		581 4
September_	160.00	216 00	100 00	50 00 }	768 4
October	155 00 1	131 75		182 69	
November	155 00 1	154 95	68 05	212 17	275 9
December	200.00	175 15	00 00	139 66	152 00
1890—January	205 00			40 00	192 (K
February	165 00	T11 11 11		231 71	,
Moneh	100 00	171 50		128 51	
March	205 00				781 90
April	185 00	254 90		184 21	279 45
May	210 00	228 85	60 35	260 94	832 50
June	205 00	198 50		126 00 ].	
Totals	\$2,270 00	\$2,402 85	\$234 40	\$2,042 29	\$4,460 25
	1 45,500 00		, , , ,		1-7-200 20
DATE.	Electric Lights.	Gas.	Water.	Insurance.	Advertising.
1889—July	\$165 00	\$527 29	\$1.062 15		\$428 00
August	105 00		1,334 37	\$12 00	- \$94.40 UU
Contombo	165 00	541 79	1,004 07	\$12 W	
September					·[
October	165 00		1,334 02	463 61	
November	] 330 00	1,377 06	1,919 27	57 00	
December	[ 165 00	568 86	204 72	45 00	
1890—January				1	
February	330 00	1,582 -09	992 39		
March	248 33	1,095 40	432 42		,
April	290 00	1,196 61	543 97	619 80	27 05
May	290 00	1,016 52	712 12	010 00	51.80
May June	280 00	1,010 02	/12 12		91.00
Juno		-			
Totals	\$2,148 33	\$8,518 17	\$8,535 43	\$1,197 41	<b>\$50</b> 6 85.
		<del> </del>	1	Drugs	Material
DATE.	TD-+4-1-4	United	Purchase of	and	Lower
•	Freight.	States.	Lands, etc.	Medicines.	Building.
	<del></del>	<del> </del>	<u> </u>	<del>,</del>	
1889—July	\$809 94	\$34 70	\$3,100 00	\$141 99	
A nomet	POUD 872		\$9,100 00		]
August	569 60	5 35		62 38	: ;
September					
October	. 262 06			44 47	
November	687 68			196 42	\$595 88
December	214 50	5 35		66 06	111 34
1890—January		45 35			
February	816 10	24 45		182 18	168 52
March	366 53	14 35		65 40	100 -
April		20 35			
		20 30		81 18	
Max	346 17			62 45	
May		1			
May June					

TABLE No. 2-Continued.

DATE.	Material for Roofing Cells.	Material, Front Building.	Attorney's Fees.	Mis- cellaneous.	Total.
August September October November December 1890—January February March April May June	\$3,601 12	\$271 00 153 10		*\$105 20 †177 50 ‡177 50 ‡96 75 \$57 50 \$436 95	39,671 67 7,201 15 40,737 22 68,323 46 27,450 97
Balance on hand June 30,	1890				47,432 07 \$698,161 98

\*July, 1889—Miscellaneous account includes salary of F. M. Cramer, Superintendent State Carpenter Shop: June \$100, and rebate on sale of furniture, \$5 20.
†August, 1889—Miscellaneous account includes salary of F. M. Cramer, Superintendent State Carpenter Shop: July \$160, and rebate on sale of grain bags, \$17 50.
†May, 1880—Miscellaneous account includes rebate paid sundry farmers on sale of grain bags.
†June, 1890—Miscellaneous account includes rebate paid sundry farmers on sale of grain bags.

TABLE No. 3.

Exhibit of the Issues of Commissary Department for the Forty-first Fiscal Year, ending June 30, 1890.

DATE.	Subsistence.	Forage.	Wood and Coal.	Coal Oil.	Tobacco.
August September October November December January February March April May June	\$7,851 85 6,151 99 5,204 93 6,785 12 5,742 36 5,365 62 5,301 88 5,528 15 6,459 90 6,768 80 6,527 96	\$131 88 160 58 121 17 370 96 122 46 460 25 135 77 289 41 257 99 310 64 127 81 121 11	\$2,244 12 1,286 28 3,154 02 2,449 77 1,420 13 1,865 80 2,609 91 2,591 90 2,536 93 2,585 87 2,880 41 2,374 99	\$105 83 114 56 93 41 107 13 136 13 125 90 137 63 138 72 130 20 109 34 136 42 120 51	\$625 67 762 69 680 40 537 50 673 19 601 01 608 59 666 61 790 71 672 02 823 34 672 09
Totals	\$72,770 47	\$2,609 98	\$28,000 13	\$1,455 78	\$8,113 82

#### TABLE No. 3 —Continued.

DATE.		Clothing.	Beds and Bedding.			
1889—July August September October November December 1890—January February March April May June		1,847 61 1,047 20 1,536 24 1,935 39 2,474 73 1,195 81 1,677 72 2,448 15	\$171 45 172 65 84 33 80 51 342 00 376 97 359 22 485 64 361 70 52 40 6 84 13 08	\$27 13 15 73 18 59 16 62 22 37 11 64 17 30 21 85 15 85	\$549 h - 763 75 655 44 480 14 372 66 744 44 733 66 540 2 383 40 406 42	
Totals		\$16,231 44	\$2,506 79	\$167 08	\$6,929 9	
DATE.	Furniture and Crockery.	Hardware and Tools.	Building Material.	Paints, Oils, etc.	Wagons and Harness.	
1889—July August September October November December 1890—January February March April May June Totals	\$98 17 32 75 30 98 38 91 45 52 41 20 30 08 54 89 40 05 40 00 20 24 21 41 \$494 20	\$863 00 783 40 410 90 4,095 37 1,302 19 869 09 991 22 828 23 1,047 01 722 26 1,419 27 1,270 49	\$195 63 172 59 27 09 692 36 257 73 803 85 292 09 107 92 237 37 426 62 3,036 33 158 51 \$6,408 09	\$864 89 621 48 596 94 817 56 705 83 179 79 446 26 767 14 705 36 798 81 952 39 668 90 \$8,125 35	\$61 45 43 14 4 37 8 13 81 42 42 89 39 65 13 64 25 38 74 49 \$394 47	
DATE.		Stationery.	Ordnance.	Miscella- neous.	Total	
1889—July August September October November December 1890—January February March April May June		\$73 68 48 41 92 19 52 80 46 31 26 20 100 22 56 45 52 77 69 00 58 62 48 74	\$226 10 16 85 8 05 85	\$501 51 746 23 400 20 62 29 73 01 99 15 105 21 60 29 102 97 70 79 85 92 75 27	\$15,008 97 13,206 75 12,507 48 17,533 15 13,302 49 13,688 97 13,174 19 14,000 68 16,083 91 13,592 00 16,840 15,131,171 39	
Totals		<b>\$72</b> 5 39	<b>\$2</b> 51 85	\$2,382 84	\$172,170 05	

#### TABLE No. 4.

## Abstract of Expenses for the Forty-first Fiscal Year.

		[ "
Advertising		\$271 51
Attorney fees	<b></b>	675 00
Insurance		396 00
Gas		
Electric lights		2,563 33
Water		6,994 47
Water service		
Engineer's Department		6,434 91
Guards' Department		
Hospital Department		
Library Department		1 40
Turnkey's Department		35,290 41
Guards' mess.	\$7,669.61	00,200 11
Officers' mess		
Prison mess		
Turnkey's mess.	774 63	
Allowance to officers, in lieu of board	3,526 70	
Warden's house, "subsistence"	1,601 74	
maruon s nouse, subsistence	1,001 11	72,919 30
Warden's house, general expense		632 69
Ralaries		64,259 70
Expense of State Prison Directors*		4,460 25
General expense		1,899 47
General repairs		1,136 26
Clerk's offices		481 08
Warden's house, "furniture and fixtures"		143 33
Warden 8 House, Turinture and fixtures		253 40
Escaped prisoners	·	
Discharged prisoners	·	
Transportation of prisoners		
Transportation of insane prisoners		14 80
Total armonga for the year		\$210,949 42
Total expense for the year		φ210,34 <b>3 4</b> 2
1	!	

<sup>\*</sup>Includes expenses incurred during the thirty-ninth, fortieth, and forty-first fiscal years.

#### TABLE No. 5.

## Cost of Maintaining Prisoners per Head.

Average number of prisoners for the year, 1,381 — total cost Average cost per head per month Average cost per head per day			$\frac{42}{72\frac{3}{4}}$ $41.84$
Total expense for the year (Table 3)		\$210,949	42
Net earnings of manufacturing departments Support of United States prisoners Rent of State houses	\$18,915 14 4,892 50 626 00	•	
Profit on sale of beef, etc., in Commissary Department	517 69	, , , , , , , , , , , , , , , , , , ,	
•		24,951	33
Net expense of the prison for the year		\$185,998	
Average net cost per head per month Average net cost per head per day			22.6 36.89
aterage net cost per nead per day			00.00

#### TABLE No. 6.

#### Earnings, Forty-first Fiscal Year.

Foundry Department Jute Department Stock Department	\$1,004 75 17,770 98 139 41	
Net earnings of departments	\$4,892 50 626 00 517 69	\$18,915 1 6,036 1
Total earnings for the year		\$24,951

#### TABLE No. 7.

#### Assets and Liabilities.

Assets and Latouttes.		
Assets.		
Buildings, gas and water mains	\$470,984 81	
Real estate and improvements	44.675 92	
Reservoirs Brick Department Commissary Department, property	31,278 55	1
Brick Department	5,702 90	
Commissary Department, property	764 96	
Commissary Department Stock	4.200.30	ļ
Engineer's Department, machinery	35,250 00	1
Engineer's Department, machinery Engineer's Department, stock and tools	1,000 55	
roundry Department	8.487 60	
Furniture Department	14,264 49	
Guards' Department	12 346 24	1
Hospital Department	1,206 18	1 .
Hospital Department Jute Department, machinery and equipment	249,685 69	
Jute Department, Stock, Iaprics, etc	1 154.4hU UL	1
Library Department	947 10	
Stock Department	11,598 78	1 '
Stock Department Turnkey's Department	32,692 39	1
Clerk's offices	1.187 08	1
Clerk's offices	6,885 39	i
		- \$997,623
Guards' mess	i \$891.95	1
Officers' mess		
Prison mess		1 23
· · · · · · · · · · · · · · · · · · ·		3,004
Due from the United States	\$923 50	
Due from sundry debtors	978 39	1
Cash in State Prison Fund	111,754 59	1
Cash balance on hand June 30, 1890	47.432 07	1
Balance in general appropriation, forty-first fiscal year	5.881 81	166,970
Total assets on June 30, 1890	1	\$1,167,599
- · · · · · · · · · · · · · · · · · · ·		
	·	
${\it Liabilities.}$		
	1	
Total assets June 30, 1890		\$1,167,59 <sup>9</sup>
Unneid hills for marchandise atc. months May and June	\$39 897 Q4	- 41,10.,00-
Unpaid bills for merchandise, etc., months May and June Unpaid salaries of officers and guards, for month of June Unpaid allowance to officers in lieu of board, for June	5 821 51	1 .
Unneid allowance to officers in lieu of heard for Inna	274 50	
Unpaid allowance to officers in lieu of board, for June Unpaid wages of department employés, for June	1 190 00	. 1
ouhair wages or department embioles, for a fine	1,120 00	_i
Total liabilities June 30, 1890.		40,054
·		1
Excess of assets		\$1,127,545
12AUC00 UI 460CU0		- 161,120,000

## TURNKEY'S REPORT.

SAN QUENTIN, July 16, 1890.

Gen. JOHN McComb, Warden California State Prison, San Quentin:

Sir: I herewith submit my tabulated reports of the Turnkey's Department for the fiscal year ending June 30, 1890.

Very respectfully,

B. DOUGHERTY, Turnkey.

TABLE No. 1.

Recapitulation of	f Received and	Discharged 1	Prisoners,	from July 1	, <i>1889</i> ,	to June 30,	1890
-------------------	----------------	--------------	------------	-------------	-----------------	-------------	------

	Монтн.	By Commitment	Oners	By Commitment, U. S. Pris-	Escapes Recaptured	Order of Court	Prisoners Remanded by	Returned with Additional	Transferred from Folsom	Returned from Insane Asylum	Total Received		Discharged per Act and Re-	Discharged per Act	U. S. Prisoners Discharged
1890-	July_August_September_October_November_January_February_March_April_May_June_Laugust_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_Agrage_A	4: 33 55 33 55 4: 56 4: 51	6 9 3 6 0 9 4 	1	1 1 1 3 - 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1		1		50 .	1	43 34 36 60 42 58 40 42 110 45 44 42		21 17 15 17 17 17 22 30 20 13 22 20 17	21 20 13 14 14 15 11 14 26 10 20 21	1 1 1 2 1 7
	Month.		Taken out on Writ of Habeas	Taken out on Certificate of Probable Cause	Taken out on Additional	Taken out as Witness	Pardoned by the Governor	Discharged by Order of Court.	Transferred to Folsom	Suicided	Escaped	Died	Taken to Insane Asylum	Total Discharged	at Close of Each Month
1899—	July August September October November December -January February March April May June		1 1 2	1	3	1 3 1 2	2 6 4 3 2 3 2 3	1	50		3	1 1 5 5 2 3 2 1 10	1	48 45 38 40 37 47 49 38 95 51 47 42	1,55 1,55 1,55 1,55 1,55 1,56 1,40
Tot	als		7	3	<b>,</b> 3	8	25	1	50	1	6	31	1	577	

## TABLE No. 1—Continued.

## Recapitulation of Received and Discharged Prisoners, from July 1, 1889, to June 30, 1890.

		I
Number of prisoners on hand June 30, 1889		1,373
Number of prisoners received by commitment	513	
Number of United States prisoners received	10	1
Returned with additional charge	[ 2 ]	ľ
Returned convict witnesses		
Iscapes recapturedPrisoners remanded by order of Court	4	
Prisoners remanded by order of Court	8	
Transferred from Folsom	50	
Returned from Insane Asylum	1	
	i——	
-Total		596
	i . I	
Bischarged per Act and restored	231	
Discharged per Act	199	
Iransferred to Folsom	50	
Taken out for new trial	4	
Taken out on writ of habeas corpus.	7	
United States prisoners discharged	7	
Taken out on certificate of probable cause	3	
Taken out as witness	8	
Recaped	6	
Died		
sken out on additional charge	3	
Pardoned by the Governor	25	
Buicided	1	
Taken to Insane Asylum	1	
Discharged by order of Court	1	
Total		577
Number of prisoners on hand June 30, 1890	ľ	1 200
Number of prisoners on hand June 30, 1890		10
indicado tot otto tipour jouri		19
Y		

TABLE No. 2.

Prisoners Received, and on what Days of the Month, from July 1, 1889, to June 30, 1896.

			18	389.				1890.					
DAY OF MONTH.	July	August	September	October	November	December	January	February	March	April	Мау	June	TOTAL
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Thirteenth Fifteenth Sixteenth Sixteenth Fifteenth Sixteenth Fifteenth Twelfth Thirteenth Fifteenth Twenty-fifte Twenty-first Twenty-first Twenty-first Twenty-firth Twenty-firth Twenty-fifth Twenty-second Twenty-fifth Twenty-sixth Twenty-sixth Twenty-seyenth Twenty-seyenth Twenty-eighth Twenty-eighth Thirtieth Thirtieth Thirtieth Thirty-first	3 5 1 1 2 2 2 2 1 1 1 1 8 3 1 4 1 1 2 2 1 1	3 1 1 1 1 2 2 1 1 1 2 2 1 1 3 1 1 1 1 1	2 2 1 3 2 2 5 1 1 1 2 3 3 2 1 1 1 1 1	1 1 1 3 2 2 5 1 2 2 4 1 1 1 1 2 1 3 3 3 3 5 2 2 6 2 1 1 3	1 2 1 1 5 1 6 1 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 1	2 4 4 3 1 1 3 3 3 1 1 5 5 1 1 2 2 2 2 1 1 2 3 8	2 2 2 7 7 1 3 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 2 7 7 1 2 2 2 1 1 3 5 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1	511 11 3 13 22 3 3 11 3 2 2 3 11 3 2 2 2 1 2 1	1 1 1 1 1 3 2 2 1 6 6 1 2 1 3 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 1 2 2 1 4 4 3 3 3 2 2 4 3 3 2 2	1 1 1 3 2 2 1 1 1 1 2 2 1 1 1 1 2 2 5 1 1 1 1 2 2 5 1 1 1 1	
Totals	43	34	36	60	42	58	40	42	110	45	44	42	59

TABLE No. 3.

Prisoners Discharged, and on what Days of the Month, from July 1, 1889, to June 30, 1890.

## REPORT OF STATE BOARD OF PRISON DIRECTORS.

## TABLE No. 4.

## Nativity of Prisoners.

## TABLE No. 5. Classification of Crime.

	1		1				
United States.	No.	Foreign.	No.	CRIME.	No.	Crime.	No.
Alaska	5	American waters					
Arizona Territory	ĭ	At sea		Arson	1	Crime against nature	1 . 7
	$\frac{1}{2}$		l B	Arson, first degree	4	Deserting a child	1
Alabama		Austria	l Mi	Arson, second degree	4	Embezzlement	1 7
Arkansas	5	Australia	18	Abduction for the purpose of pros-	*		==
California	298	Belgium	1	mudellou for the purpose of pros-		Forgery	55
Connecticut	3	British Columbia.	-65	titution	1	Felony	43
Colorado	5	Canada	100	Administering poison with intent		Felony and burglary, first degree	( 1
District of Columbia	2	China	. 3	to kill	1	Grand larceny	218
	$\frac{2}{2}$	China	130	Assault to murder	35	Grand larceny, second offense	1 1
Florida		Chili	1 4	Assault to murder and prior	Š	Grand larceny and escape	ា តំ
Georgia	3	Central America	Ta Ta	Assault to murder, assault to rob		Crand larceny and escape	1 2
Illinois	49	Denmark		Assault to murder, assault to rob	1	Grand larceny, burglary, second	
Indiana	13	England		Assault to murder and robbery	2	degree, and escape	1
lowa	18	East Indies	**	Assault to murder (two commit-		Grand larceny and prior	8
				ments)	3	Grand larceny (three commit-	1
Kentucky	19	France	183	Assault with intent to commit mur-	_	ments)	1 1
Kansas	1 4	Finland	1 1	der	20	Grand larceny and five priors	1
Louisiana	9	Germany	AL.	Amount to mamo		Canad largery and five priors	
Massachusetts	52	Greece	1 %	Assault to rape	15	Grand larceny and assault to mur-	1
Missouri	29	Ireland	ne.	Assault to rape and prior	1	der	1
			Ja:	Assault with intent to commit rape_	1	Grand larceny, burglary, first de-	1
Maryland	15	Italy		Assault to rob	18	gree, burglary, first degree, and	i
Maine	8	Japan	. 1	Assault with a deadly weapon	16	arson, second degree (four com-	1
Michigan	10	Lower California	Š	Assault with a deadly weapon and	10	arson, second degree (rour com-	
Montana	$-\tilde{2}$	Mexico		at ooo con		mitments)	Ī
	4			\$1,000 fine	1	Incest	2
Minnesota		Nova Scotia		Assault with a deadly weapon and		Injuring a public jail	3
Mississippi	1	New Brunswick	\ <b>*</b>	burglary, first degree	1	Mayhem	3
New York	129	Portugal	- ₩	See Assault with a deadly weanon and i	_	Mayhem and resisting an officer	ĺí
New Hampshire	2	Poland	3	assault to rob	2	Mayhem and assault with a deadly	1 -
New Jersey	7	Russia	i i	Leganda with a decider	2	maynem and assault with a deadily	1 -
New Manie		C	1/1	Assault with a deadly weapon with	_	weapon	1
New Mexico	2	Sweden and Norway	100	intent to murder	6	Mansfaughter	61
Nevada		Switzerland	10	Assault with a dangerous weapon	2	Murder	14
Nebraska	1	Scotland	133	Attempt at grand larceny	3	Murder, first degree	100
North Carolina	8	Sicily	1	Attempt at burglary	ĭ	Murder, second degree	90
Ohio	27	Sandwich Islands	l î.	Attempt at bunglary (two commit	-	Migraina II C moil	1 30
	îi		ā	Attempt at burglary (two commit-		Misusing U. S. mail	Z
Oregon		New South Wales	1	ments)	1	Misusing U.S. mail and \$100 fine	1
Pennsylvania	45	West Indies	Į.	Attempt at burglary, first degree	4	Misusing U. S. mail in carrying	1
Rhode Island	8	Wales	7	Attempt at burglary, first degree,		out scheme to defraud, and \$750	1
South Carolina	7			and prior	3	fine (three commitments)	1
Tennessee	<b>'2</b>	Total	540	Attempt at burglary, first and sec-		Passing counterfeit money	3
	6	10041		and downers		Dassing Counterfelt money	
Texas				ond degrees	1	Perjury	10
Utah	1		1 3	Attempt at robbery.	2	Petit larceny and priors	3
Vermont	3	RECAPITULATION.	- 14	Attempt at arson, first degree	1	Petit larceny and prior felony	1
Virginia	20		-	Attempt at bribe	2	Petit larceny, second offense	10
West Virginia	ĭ	United States	852	Attempt to commit rape	$ar{f 2}$	Petit larceny and prior petit lar-	1
Wisconsin	<b>17</b>	Foreign	540	Assault with intent to commit the	~	ceny	1
W ISCOUSIII	11	roreign		is form over animal to Continue the			1 -
- · ·			1 909	infamous crime against nature	Ţ	Placing obstruction on the track of	
Total	852	Total	1,392	Buggery	2	a railroad	1
•			]	Bridge burning.	1	Rape	14
			- 3	Burglary	87 .	Robbery	110
			3	Burglary (two commitments)	3	Robbery and assault with a deadly	110
			7	Burglary and prior petit	ĭ	roobery and assault with a deadily	
•			- 1	and prior petit		weapon	1
			1	Burglary, first degree	146	Robbery (three commitments)	3
			- 5	Burglary, first degree, and prior	6	Robbery (four priors)	1
		,	3	Burglary, first degree, and prior		Robbery and prior petit	1 4
				petit	1	Robbery and prior petit Robbery of U. S. mail	1 1
			3	Burglary, first degree, and prior,	- 1	Dobbows and infinite a stail	
			- 3	and handless degree, and prior,	ĺ	Robbery and injuring a jail	1
	* .	•	. 5	and burglary, first degree (two	_ [	Receiving stolen goods	, 5
			12	commitments)	1	Seduction, under the promise of	1
				Burglary, first degree, and escape.	1	marriage	1 1
		*	33	Burglary, first degree, and assault	-	Subornation of perjury	1 7
•			E .	with a deadly weapon	1	Smuggling	i
7			3	Runglans accord		mrakking	, .
		N.	. 1	Burglary, second degree	176	] m, ,	1.000
•			- 3	Burglary, second degree, and prior.	2	Total	1,392
*			- 3		- 1		

#### TABLE No. 6.

## Terms of Imprisonment.

TERM.	No.	Term.	No.
One half year One year One and one third years One and one half years One and ten twelfths years Two and one third years Two and one third years Two and one half years Two and two thirds years Two and three quarters years Three years Three and one quarter years Three and one half years Four years Four years Six years Six years Six and one sixth years Six and one half years Seven years Seven and one half years Eight years Nine years Ten years Ten years Twelve years Twelve years Thirteen and ten twelfths years	1 25 1 158 1 24 2 115 6 90 1 1 1 6 85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fourteen years Fifteen years Fifteen and one half years Sixteen years Seventeen years Seventeen years Nineteen years Twenty years Twenty-two and one half years Twenty-three years Twenty-three years Twenty-five years Twenty-ine years Thenty-ine years Thirty years Thirty years Thirty-three years Thirty-three years Thirty-three years Thirty-four years Thirty-four years Thirty-four years Thirty-four years Thirty-five years Thirty-five years Thirty-six years Forty years Forty years Fifty years Life-timers Total	

#### TABLE No. 7.

## Number of Prisoners from each County.

COUNTY,	No.	County.	No.
Alameda Amador Butte Calaveras Contra Costa Colusa Del Norte El Dorado Fresno Humboldt Inyo Kern Lake Los Angeles Lassen Marin Mendocino	668 33111116 99111 22444 1114 8227 11518	San Francisco San Benito San Bernardino San Joaquin San Luis Obispo San Mateo Santa Barbara Santa Clara Santa Cruz Shasta Sierra Siskiyou Solano Sonoma Stanislaus Santa Clara and Marin San Francisco and Marin	43 86 411 87 66 8 8 11 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
Mariposa.  Merced Mono Mono Monterey Modoc Nevada Napa Orange Placer Plumas Sacramento San Diego	17 3 22 5 10 22 2 16 1 38	San Joaquin, Placer, and Marin Tehama Trinity Tulare Tuolumne Ventura Yolo Yuba Alaska Territory Arizona Territory Total	2 1 1

#### TABLE No. 7—Continued.

## Number of Terms.

Prisoners serving their first term	1,087
Prisoners serving their second term	174
Prisoners serving their third term	74
Prisoners serving their fourth term	31
Prisoners serving their fifth term	9
Prisoners serving their sixth term	13
Prisoners serving their seventh term	2
Prisoners serving their eighth term	2
Total	1,392

#### TABLE No. 8.

#### Age of Prisoners.

AGE.	No.	AGE.	No.	
welve	11 17 33 49 52 42 42 55 72 56 58 62 48 60 30 42 43 43 43 43 43 43 43 43 43 43 43 43 43	Forty-tour Forty-five Forty-six Forty-seven Forty-eight Forty-nine Fifty Fifty-one Fifty-two Fifty-four Fifty-five Fifty-five Fifty-six Fifty-seven Fifty-aine Sixty Sixty-one Sixty-two Sixty-two Sixty-two Sixty-four Sixty-four Sixty-five Sixty-five Sixty-seven Sixty-four Sixty-five Sixty-seven Sixty-four Sixty-seven Sixty-four Sixty-seven Sixty-seven Sixty-seven Sixty-seven Sixty-seven Sixty-seven Sixty-seven Sixty-one Seventy-one Seventy-four	23 22 15 24 28 11 13 14 28 24 44 44 41 22 21	

## TABLE No. 8-Continued.

#### Educational Abilities of Prisoners.

Read and write	1,100
Read and cannot write	51
Neither read nor write	241
Total	1,392

#### TABLE No. 9.

#### Occupation of Prisoners when Received.

Occupation.	No.	Occupation.	No.
O VVVI ALIUM.			
Apprentice	3	Herder	2 4
Accountant	1	Horse trainer	4
Art bronzer	1	Horseshoer	2
Architect	2	Hunter	2
Artist	1	Hackman	2
Assayer	1 1	Ironer	7,5
Amalgamator	9	Insurance agent	1/4
Baker Bookkeeper Bookkeeper	17	Journalist Lawyer	1.8
Barkeeper	13	Laborer	281
Barber	31	Milliner	201
Blacksmith	$\tilde{29}$	Molder	71
Butcher	17	Miner	41
Brickmason	17	Marble cutter	11
Broommaker	2	Machinist	27
Boilermaker	7	Merchant	4
Brakeman	5	Mattressmaker	1
Boltcutter	1	Millwright	1
Butler	1 1	Messenger boy	2
Buttonmaker	1	Nurse Printer	19
Blockmaker	i	Plasterer	70 ·
Blockmaker Boatman	i	Plumber	A
Brewer	3	Policeman	11
Bootblack	í	Painter	177
Canmaker	ī	Physician	il
Cook	104	Papermaker	1.
Carver	4	Photographer	1
Carpenter	34	Polisher	4.3
Cigarmaker	31	Quarryman	4-1
Clerk	34	Railroad employé	14.
Cabinetmaker	5	Ship carpenter	4.1
Cooper	2	Saloonkeeper	4
Coach driver	$\frac{2}{1}$	Sashmaker	47
Civil engineer	1	Sailor Solicitor	13
Carriage trimmer	î	Storekeeper	1/1
Carriage painter Crackermaker	ī	Servant	21
Chairmaker	ī	Sign painter	1
Confectioner	3	Stock raiser	5
Coffee roaster	1	Seamstress	1
Cotton classer	1	Shorthand reporter	11
Domestic.	2	Steward	41
Decorator	1	Stonecutter	5.1
Dairyman	2	Stevedore	4
Druggist	4	Salesman	1:1
Dog trainer	1 1	Spinner	30.1
Dyer	$\begin{vmatrix} 1\\2 \end{vmatrix}$	Shoemaker	44
Dentist	1	Teamster	9:
Engraver and penman	16	Tinsmith	10
Engineer Electrician	10	Typesetter	1/4
Electroplater	1	Telegraph operator	5]
Farmer	51	Upholsterer	, 5,
Fisherman .	10	Veterinary surgeon	
Florist	4	Vaquero	5X
Fireman	15	Washerman	tr a
Furniture polisher	$\frac{2}{3}$	Weaver	1
Foundryman	3	Wool scouring	AG
Filer and sawyer	6	Waiter	3
Gardener	4	Wood turner	25
Gasfitter	3 2	Washerwoman	Ē
Glovemaker		Watchmaker	
Harnessmaker	15 28	Total	1,39
Hostler	20 5	10031	-1
Housewife	٠,		· ·

#### TABLE No. 10.

Statistics of Environments as Compiled from the Statements of Prisoners. Details of their Habits, Relations, and Conditions prior to their Arrest and Conviction, and the Causes that led thereto.

	,		
	No.	·	No.
Color.		Religious Denominations.	
White	1,188	Catholic (Roman)	578
Rlack	31	Catholic (Greek)	15
Indian Mongolian (Chinese) Mongolian (Japanese) Indo-Caucasian	23	Baptist	60
Mongolian (Chinese)	139	Episcopalian	76
Mongonan (Japanese)	1 1	Lutheran	67
Mulatto	9	Methodist Presbyterian	95 67
mulareo		Universalist	45
Total	1,392	Hebrew	25
		Mormon	7
Residence.		Pagan	14Ò
	1	Irreligious	217
Residents of State	852		
Non-residents of State (land)	493	Total	1,392
Non-residents of State (sea)	47	Conjugal Relation.	
Total	1 200	1	004
10001	1,392	Married	264 68
Moral Relations.		Widowed	40
moral netations.	l	Widowed Single	1,020
Intemperate	683		
Moderate	49	Total	1,392
Temperate	46	Social Relations.	
Opium users	614	1	
m		Parents living	470
Total	1,392	Parents dead	280
		Father living	195
Educational.		Mother living	180
Read, write, and cipher (English)	665	No knowledge of parents	267
Read and write (English)		Total	1,392
Read only (English)	31	i l	1,002
Read and write (English and foreign)	123	Age when Parents Died.	
Read only (foreign)	200	Under 10 years when father died	90
Read only (foreign) Read and write (foreign only)	30	Over 10 years when father diedl	85
Illiterate	240	Over 18 years when father died	141
` m . 1	1.000	Over 18 years when father died Under 10 years when mother died	85
Total	1,392	Over 10 years when mother died Over 18 years when mother died	79
School.		Over 18 years when mother died	173
School.		Parents that are not dead	' 493 246
Public school	945	10 knowledge of death of parents:	
Private school	108	Total	1,392
College	43	Polding on Cailons	
Belf-educated.	75	Soldiers or Sailors.	
No school	221	Served in United States Army	87
		Served in United States Navy	21
Total	1,392	Served in Confederate Army Served in Confederate Navy	11
Attending Church.		Served in Confederate Navy	3 121
. Attenuing Charen.		l G 1 ! G 1 1	4
Recular	547	Served in German Navy	5
Regular	469	Served in English Army	6
Never	376	Served in English Navy	Š
·		Served in German Army Served in German Navy Served in English Army Served in English Navy Served in French Army Served in French Navy Served in Italian Army Served in Italian Navy Served in Mexican Army Served in other foreign armies and	5 6 5 2 6
Total	1,392	Served in French Navy	5
		Served in Italian Army	2
At Sunday School.	-	Served in Italian Navy	6
Rosmian	E40	Served in Mexican Army	7
Regular	540   475	Delyou in other loreign armies and	19
Never	377	navies Served in no branch of service	1,087
		Solved in he promon of service	
Total	1,392	Total	1,392
·	_,00 [		-,002

## TABLE No. 10-Continued.

	1	1	
	No.		No.
To O O		Ton you and agazzalta to you	1
How Crime was Committed.		For rape and assaults to rape For miscellaneous crimes	32 00
Alone	927	For transportation	27,000
With accomplices	465	Total	\$641,650
Total	1,392	Causes of Crime.	-,00
Where Living when Crime was Com-		<u>-</u>	
mitted.		Crime caused by liquor Crime caused by destitution Crime caused by bad associates	43
Living in city	575	Crime caused by bad associates	566
Living in town	75	Crime caused by sudden impulses	96
Wandaring from place to place	180 562	Crime caused by sudden impulses Crime caused by ignorance Crime caused by wrong inflicted,	·   70
wandering from place to place		real or imaginary	24
Total	1,392	real or imaginary	43
Time of Committing Crime.		Total	1,392
By night	676	Cause of Committing Crime.	j ,
By day	716	Professional criminal	255
Total	1,592	Destitution	65
Place of Committing Crime.		Liquor Opium	295 560
ruce of Community Crime.		Women	60
Houses of business (mercantile)	123	Women Uncontrolable influences	35
Houses of business (monetary)	23	Ignorance	50
Private regidences	277	Bestial passions	40
Public residences (hotels, etc.)	197	Resisting	20
Public residences (hotels, etc.) Highways (railroads and stage	100	Bestial passions. Resisting Gambling	12
routes)	100	(Data)	1 900
Falsons (common roads, etc.)	56 271	Total	1,392
routes)	345	Industrial Relations.	
•			
Total	1,392	Trades (multiple)	130 700
Fetimated Amount of Property		Trades (single) Knowledge of trade	106
Estimated Amount of Property Stolen.		No trade (laborer)	281
, pooreir.		No trade (laborer) No trade (vagrant)	150
By forgeries	\$56,000 87,000	Professions	25
By burglaries	87,000		
By robberies	65,000	Total	1,392
By false representation	1,250 1,500	41 724 . 4 . Cala Thank and	
By largeries (grand)	63,000	Ability to Gain Livelihood.	
By larcenies (grand)	250	Can earn \$200 per month	
By false claims By larcenies (grand) By larcenies (petit) By receiving stolen goods	2,000	Can earn \$190 per month	
	<del></del>	Can earn \$180 per month	
Total	\$296,000	Can earn \$170 per month	1
Wating and a J. Dance of the Alexand		Can earn \$160 per month	10
Estimated Damage Inflicted.	ł	Can earn \$140 per month	40
By arson	\$27,000	Can earn \$100 per month	75
By arson By burglarious operations	72.000	Can earn \$90 per month	87
Miscellaneous	\$27,000 72,000 25,500	Can earn \$80 per month	90
<u> </u>		Can earn \$200 per month Can earn \$190 per month Can earn \$180 per month Can earn \$170 per month Can earn \$170 per month Can earn \$140 per month Can earn \$140 per month Can earn \$100 per month Can earn \$100 per month Can earn \$90 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month Can earn \$70 per month	96 110
Total	\$124,500	Can earn \$50 per month	175
Estimated Cost of Conviction and		Can earn \$40 per month	125
Transportation.	1	Can earn \$30 per month	130
T. W. O. D. C. DOWN OV. 184	1	Can earn \$20 per month	200
For murder	\$280,000	Can earn \$10 per month	112
For burglary	150,750	Can earn \$5 per month	40 2
For burglary For arson For assault to murder	\$280,000 150,750 8,750 47,000	Can earn \$5 per month	κη. (10
For assault to murder	47,000	A burden to the State	
For assault with a deadly weapon [	2,200	Total	1,392
For robbery and assault to rob	85,150	Total	1,00

## TABLE No. 10—Continued.

	No.		No.
Plea.		Pleaded guilty in order to mitigate	
2.3	COE	the penalty Pleaded guilty because of prior con-	23
Pleaded guiltyPleaded not guilty	685 707	viction	13
pleaded not guilty		Pleaded guilty to avoid prosecution	10
Total	1,392	for other crimes	2
		Pleaded guilty to murder	(
		Pleaded not guilty to murder	26
pleaded guilty because had neither	210	Pleaded not guilty to assault to	_
friends nor moneypleaded guilty to save disgrace of	<b>24</b> 0	murder	56
friends	25	Pleaded not guilty because had money and friends	366
pleaded quilty through ignorance of			
the law	40	Total	1,392

## TABLE No. 11.

#### From what Counties Committed, and in what Year.

				-,						3
COUNTY,	1867.	1872.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881
	Ť	i	i i	i	i		ì	ī		
Alameda					.					
Amador				1	l	.		.] 1		
Butte					·		1			
Calayeras				l		.	1			
Colusa					l	.		l		19
Contra Costa							Ì			. 3
Del Norte								1		1
El Dorado								1	l	
Fresno										
										l 🐕
Inyo										
Kern										10
Lake									1	40
Los Angeles								1		2
Lassen										93
Marin										
Mendocino								<del>-</del>	1	i
Mariposa										1 5
Merced									<b></b>	
Mono				l						
Monterey								i		
Modoc								1 -		1 5
Nevada							1		i	
None							1		1 1	
Napa									<i>-</i>	
Orange Placer	<b></b>								<u>i</u> -	
Dlumas			1	1		<b>-</b>			1	4
Plumas							1			
Sacramento		1 1							1	
San Francisco				1	2		1	1	1	1 1
San Benito										
San Bernardino							1	[	2	[
San Diego									1	
San Joaquin								1		
San Mateo										
Santa Barbara				1				1		
Santa Clara						1				
Santa Clara										\ <u>`</u>
Shasta									[]	[]
Sierra			<b></b> -							
Siskiyou										
Solano										
Sonoma								<b></b>	1	
Stanislaus										[ F
Santa Clara and Marin	]		J		<b>-</b>	]				
San Francisco and Marin.										I
San Joaquin, Placer, and										1
Marin										
Sutter										
Tehama	]							1		¥.
Trinity										
Tulare					1					3%
Tuolumne					_					1
										I.
Yolo									]	النباء [
Yuba_										
Arizona Territory										
ALLEONA TOUR OUT										
Totals	1	3	2	4	5	2	7	9	9	22
TO 6010	1 4	J		*	, ,	4	•	•	"	1 .5

## TABLE No. 11—Continued.

		IDI'N I	10, 11-	-00116	mueu.					,
COUNTY.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	Total,
Alameda		1	2		8	8	9	13	15	56
Amador		ī						i	ĩ	6
Butte			$\frac{2}{1}$	2	1	3		$1\overline{2}$	8	29
Calaveras			1	2		1			6	11
Colusa				1	2	2	2	1	i	10
Contra Costa			1	3			1	5	4	16
Del Norte		1								2 2
El Dorado			1							
Fresno	2	2	4	3	6	3	4	1	19	45
Humboldt					2	3	1	2	3	12
inyo			1	1					1	3
Kern			2		1			12	14	30
Lake		1	1	1	1	2		1	1	9
Los Angeles	1	1	2	3	6	7	10	49	35	119
Lassen				<b></b>					1	1
Marin		1		2	1	1	3	2	2	12
Mendocino			1	2	3		1	4	6	16
Mariposa			2	2	1 2	3	$\left[\frac{1}{2} \right]$	1 3	E	7
Merced			2	<b>-</b> -	3 2	4	1	5	5	19 3
Mono	i		<u>2</u> -	3	4	2	6	10	4	34
Monterey			í	1	i		U	10	1	4
Nevada			1	1 -	3	i		ī	1	7
Napa	i	2	2		١	1	3	7	9	25
Orange	1 1	"	1			-	ľ	•	2	2
Placer	1				1			4	์ จึ	16
Plumas	-				-			-	J	i
Sacramento	2	2	3	2	3	3	4	3	8	33
San Francisco	8	5	3 5	21	37	84	38	91	125	422
San Benito			ĭ		i			$\tilde{2}$	3	7
San Bernardino			$\tilde{2}$		4	10	7	15	15	56
San Diego			1	1		4	4	15	9	36
San Joaquin				$\bar{2}$	5	7	5	8	21	49
			1		1	3		6	2	13
San Mateo						1		2	5	8
Santa Barbara			3		2			7	6	20
Santa Clara	1		1	4	3	9	4	7	39	69
Santa Cruz								1	2	3
Shasta	2					1		8	11	22
Sierra		2	2			2	1		3	10
Siskiyou					3	1		4	1	9
Solano		1				4	2	5	5	15
Sonoma	$\frac{2}{1}$	;-	2	2	4	2	z	9	4	28
StanislausSanta Clara and Marin	T	1			1			1	$\frac{2}{1}$	7
San Proposices and Marin			1						1	3
San Francisco and Marin.	1		<u>+</u>							3
San Joaquin, Placer, and Marin									1	1
Sutter									1	1
Tehama				<u>ī</u> -			1	5	4	15
Trinity			1	i			L I		_ =	2
Tulare			i	l		7		2	6	20
Tuolumne	1		i	2	$\ddot{2}$	4	ī	ĩ	š	16
Ventura		1			·		3	4	2	ě
Yolo						2	1	$\bar{2}$		5
Yuba						1		4	2	7 7
Alaska Territory								4	3	
Arizona Territory					- <i></i>			1		1
		<u> </u>			<del></del>					
Totals	24	22	48	61	113	186	118	337	424	1,392
ê.	<u> </u>	<u> </u>		1	<u></u>	<u></u> _	L			

TABLE No. 12.

## Industrial and Criminal Life of Prisoners.

		YE.	ars P	ASSED	IN I	NDUST	RIAL	Pursu	JITS.		Tota
YEARS PASSED IN CRIMINAL PURSUITS.	1 to 2	2 to 4	4 to 6	6 to 8	8 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	1
Twenty-five to thirty Twenty to twenty-five Fifteen to twenty Ten to fifteen Eight to ten Seven to eight Six to seven Five to six Four to five Three to four Two to three One to two	9 11 13 11 15 11 4 20	7 8 7 4 3 7 8 9 40 45	4 7 19 9 7 8 7 7 39 56	1 2 8 2 5 5 4 3 9 4 25 70	4 6 2 11 17 15 13 12 9 9 30 45	3 4 10 13 17 2 1 9 9 16 59 81	1 2 13 14 21 4 2 10 6 8 45	1 3 15 2 11 1 3 8 9 3 44 44	2 2 1 2 2 2 2 2 5 15	2 1 4 5	3 4
Totals	171	133	163	138	173	224	186	144	48	12	1,3

## TABLE No. 13.

Terms Served in State	Prisons	and othe		tions.		
TERMS SERVED IN OTHER PRISONS THAN SAN QUENTIN.	first term in San Quen- tin, by transfer from Folsom	First term in San Quen- tin, by Original Com- mitment, Served one Term at Folsom	first Term in San Quen- tin, by Original Com- mitment	Second Term in San Quentin, by Original Commitment	Third Term in San Quen- tin, by Original Com- mitment.	Fourth Term in San Quentin, by Original Commitment
Served two terms in Folsom	8 30	11		4 2	3 2	4
Served one term in other State Peniten- tiaries		1		1		2
Berved four terms in San Francisco House of Correction Served three terms in San Francisco	13	2	50	7	2	
House of Correction	11	3	40	6	3	
Served two terms in San Francisco House of Correction	10	1	42	20	3	
Served one term in San Francisco House of Correction	13	2	52	23	12	
Served in San Francisco Industrial School	9	17	275	26	9	<b>-</b>
Served in one or more County Jails Been incarcerated in Insane Asylum	12	10	146 4	24 14	6 3	
Only to San Quentin committed			261	31	27	24
Totals	106	48	870	159	71	30
TERMS SERVED IN OTHER PRISONS THAN SAN QUENTIN.	Fifth Term in San Quen- tin, by Original Com- mitment	Sixth Term in San Quen- tin, by Original Com- mitment	Seventh Term in San Quentin, by Original Commitment	Eighth Term in San Quentin, by Original Commitment	First Term in San Quen- tin, by Transfer from Folsom, has Served Terms in Other Prisons.	Total .
Served two terms in Folsom Served one term in Folsom Served two terms in other State Peni-					9 23	24 72
tentiaries Served one term in other State Peni-		<b></b>			6	8
tentiaries Lerved four terms in San Francisco					2	7
House of Correction  Beryed three terms in San Francisco					2	76
House of Correction						63
House of Correction San Francisco					2	78
House of Correction						102
School					21 17	357 215
een incarcerated in Insane Asylum by to San Quentin committed	4	7	2	2	11	32 358
Totals						

#### TABLE No. 14.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1890, und Commitment for Murder, in what Years Committed, and from what Counties.

COUNTY.	1876.	1878.	1879.	1881.	1884.	1885.	1886.	1887.	1888.	1890.	Tot
Butte Calaveras Colusa Fresno. Humboldt Kern Los Angeles Modoc	1	i	1		1	1	1	1	1	1	
Merced Tehama Totals	1	1	1	1	2	1	2	1	3	1	

#### TABLE No. 15.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1890, under Commitment for Murder in the First Degree, in what Years Committed, and from what Counties

County.	1873	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	
Alameda										1					1			
Amador		1															1	1
Butte												<b>-</b>					1	ŀ
Calaveras																	1	Г
Colusa												1						
Contra Costa				1			~									1		1
Del Norte						1												ŀ
Fresno								3		· 1								1
lnyo							1											П
Kern				]						1							J	1
Los Angeles									1								.	
Marin										2								-
Mendocino								1					1	1				
Mariposa Nevada														1				١.
Nevada					1		1			1				1				-  '
Napa Placer											1							
Placer		1					1					1	1					-
Sacramento									2	1		1			1	1		·
San Francisco		1	1		1		2				2			3	2	1		-
San Bernardino Santa Barbara							2						2	1			.	
Santa Barbara		1				1									1		.	
San Diego	1	li	1		l <b>-</b>	l	1				1				1		.	
San Joaquin											1						.	
Santa Clara		l						l	1		1	1	2	1		.	.	1.
San Mateo													1				.	-
Solano.	1				l								1			1		-  -
Siskiyou	<i>-</i>										1						.	-
Sierra										1					1	I	.	
		ļ ·							1						1			1
Sonoma							1		1							1		-[]
Tulare Tehama			1				1				<b>-</b> -			1			,	1
																	.	1
Tuolumne									2	-+					1		.	1
Ventura							1			1								13
Yolo																. 1		Г
Totals	2	4	3	1	2	4	11	Б	10	9	8	4	10	9	9	6	3	1

#### TABLE No. 16.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1890, under Commitment for Murder in the Second Degree, what years Committed, and from what Counties.

				- 09.0	-,	3				.,					
County.	1872	1876.	1878	1879	1881	1882.	1883	1884	1885	1886	1887	1888.	1889.	1890	Total_
Alameda	ĺ	1	ĺ		1			1		1		1		.	3
Amador						-		1		*					9
Butte				·		-									;
												;-			1
Colusa												. 1			_
Contra Costa El Dorado							<u>-</u> -	1							1
								1	1						1
Fresno						- I		1	1	<u>-</u> -		2			5 2 2 2
Humboldt	<b>-</b> -					-		1	1	+		1			Z
Inyo							ļ	1	I				ļ <u>-</u> -		Z
Kern					1								1		
Lake						·}- <i>-</i>	1				2				3
Los Angeles								2							3
Marin												1	:-	:-	
Mendocino													1	1	2
Monterey				2	1			1							4 2
Mariposa									2	l					2
Nevada		]			]				]			1			1
Napa						1					1		J		2
Phimas		1	1		l	Ι.									1
Sacramento	1								<b></b>						1
San Francisco							2	2		4	4	3	2	1 1	19
Sierra									1						1
San Bernardino			1										1		$\bar{2}$
Santa Barbara								1				<u>-</u>			1
San Diego	1								1			1			3
San Joaquin												3			3
Santa Clara		1									2		2		4
Solano											1			1	$ar{2}$
Sonoma									1		1		1		4
Stanislaus						1							l Ì		1
San Luis Obispo															-
Siskiyou													1		1
Pulare								1			1		-		3
Tehama		1			_			]			-		i		3
Tuolumne		~		****	1					1			^ I		2
Yolo	1	- 1			-					-	1				1
, *VIV															
Total	2	2	2	2	6	3	5	11	8	7	13	12	10	3	86
t LUCUI	- 1	- 1	~			"	"	~-	٠,	•	-0		-7	۱ ۲	90
			1			· {	!			1		!			

Nore.—Contra Costa, in 1867, 1; Sacramento, in 1874, 1; Marin, in 1877, 1; Alameda, in 1880, 1. Total, 90.

TABLE No. 17.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1890, under Commitment for Manslaughter, in what Years Committed, and from what Counties.

							-
County.	1885.	1886.	1887.	1888.	1889.	1890.	Total
Alameda			1		1		
Contra Costa Fresno		<b>-</b> -			1	<u>i</u>	
Kern Los Angeles	2		3 1	3	1 2	i	1
Mendocino	1		1	1			
Marin	1					1	
San Francisco San Bernardino San Joaquin			5 1	4	1		The second
San Luis Obispo Stanislaus		1	<u>-</u> -	1	1		
San MateoSonoma		1		1 3	i		September 2
San Diego				i	1	\$ 2	-
Trinity Tulare	1		2				į
Arizona			16	15	11	9	
Totals	0	4	70	15	11.	9	- U

TABLE No. 18.

Showing the Number of Prisoners in the State Prison at San Quentin, June 30, 1890, under Commitment for Felonious Assaults, in what Years Committed, and from what Counties.

COUNTY.	1880.	1881,	1883.	1884.	1886.	1887.	1888.	1889.	1890.	Total
Alaska						<u> </u>		1	2	
Alameda						1			1	1 2
Colusa			l			1				1
Fresno				1				1		. 1
Humboldt					. 1	1		1		1
Los Angeles	l		}				1	3	1	1
Marin			l			\		1		1 1
Mendocino									3	1
Mendocino Monterey					1			1	1	
Mariposa						2	,			1
Merced								2		1
PlacerSan Francisco								1		1 4
San Francisco		1	1		3	4	2	7	8	4
Sacramento								2		1
San Bernardino								5	2	4
San Luis Obispo								1		1 1
Santa Barbara	l				1				1	1
San DiegoSanta Clara					3			4		3
Santa Clara	1					1			1	
Solano			1	<b></b> ,		1				3
Sonoma										3
Sierra										1
Shasta							2			
Fulare								3	1	
<u> Frinity                                   </u>							1			4
Ventura								2		1
Totals	1	2	2	8	7	11	6	35	21	3

#### TABLE No. 19.

Offenses Against Life.

YEAR COMMITTED.	Murder-First De-	Murder	Murder—Second De-	Manslaughter	Felonious Assaults	Total
Committed in year 1867 Committed in year 1872 Committed in year 1873 Committed in year 1873 Committed in year 1875 Committed in year 1876 Committed in year 1876 Committed in year 1877 Committed in year 1879 Committed in year 1880 Committed in year 1880 Committed in year 1880 Committed in year 1882 Committed in year 1882 Committed in year 1883 Committed in year 1883 Committed in year 1885 Committed in year 1885 Committed in year 1886 Committed in year 1887 Committed in year 1888 Committed in year 1888 Committed in year 1888 Committed in year 1888 Committed in year 1888 Committed in year 1889 Committed in year 1889 Committed in year 1889	2 4 3 1 2 4 11 5 10 9 8 4 10 9 9 6 3	1 1 1 1 2 1 2 1 3	1 2 1 2 2 1 6 3 5 11 8 7 13 12 10 3	6 4 16 15 11 9	1 2 3 7 11 6 35 21	1 2 2 1 4 6 6 2 5 7 13 14 13 16 24 19 30 545 62 37
Totals	100	14	90	61	88	353

TABLE No. 20.

Prison Account from 1851 to July 1, 1890.

											_ ′
YEAR.	Prisoners Received by Order of Court	Pardons Revoked	Escapes Recaptured	Returned from Insane Asylum	Returned Convict Witnesses	United States Prisoners Received	Returned with an Additional Sentence on New Charge	Remanded by Order of Court	Total Received	Discharged per Act and Restored	Discharged per Act
1851	35 163 211 266 258 245 226 220 295 238 190 232 235 235 254 287 287 287 287 287 287 287 287 287 287	1 1 1 1	3 2 16 25 32 33 50 20 9 74 4 2 1 2 2 3 3 4 3 3 2 1 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 5 1 1 1 1 1 1 2 2 2 2 2 2 2	12 2 8 20 11 5 13 6 11 16	4 4 11 1 7 4 9 9		2 3 1 5	35 108 106 227 291 297 277 259 277 259 277 264 167 224 226 258 2287 2285 333 376 428 418 620 716 604 457 440 418 5597 480	11 4 4 32 166 1 1 4 4 4 3 7 25 4 1 1 1 8 5 1 8 5 1 8 6 2 1 4 4 1 6 4 4 2 6 4 4 2 6 4 4 2 6 4 4 2 6 4 4 2 6 4 2 6 2 8 1 9 6 6 2 8 1 9 6 6 1 9 0 2 3 0 2 3 6 1 9 4 1 1 1 8	
1890	448 513		4	ī	š	10	2	8	546	231	199
Totals	13,985	8	345	24	121	74	9	36	14,767	4,718	4,81

TABLE No. 20-Continued.

								. — — —			
YEAR.	Pardoned by the Governor.	Pardoned by the President.	Discharged by Commuta- tion of Sentence	Discharged by Order of	Escaped	Died	Sent to Insane Asylum	Taken out as a Convict	Discharged by Order of United States Officials	Taken out by Order of	Total Discharged
1851	2 9 14 229 18 28 25 34 11 24 111 23 37 61 15 66 32 66 0 16 17 9 7 20 52 27 33 18 18 25	1 1 1 1 2 2 1 2 2 3 3 2 1 1 1 2	1 2 1 2 1 10 35 62 53 20 15	4 1 4 7 13 7 4 5 10 8 11 7 7 7 14 16 15 20 27 35 42 27 35 42 21 11 12 11 12	1 6 8 8 87 28 65 723 95 127 35 90 24 1 4 4 5 10 7 7 1 1 4 4 3 3 8 6 6	1 3 6 1 1 5 1 7 7 8 8 1 6 9 10 16 12 8 11 18 16 16 27 228 23 14 13 14 15 29 31 32 33 32	23 11 21 18 71 13 13 4 4 13 8 8 2 11 5 8 11 13 14 13	14 20 8 22 11 5 13 7 11 6 8	1 1 2 1 1 9 5 3 7	14 18 11 11 17 13 5 5 17 17	11 21 21 194 196 234 191 190 314 212 286 193 196 328 328 325 326 361 190 37 425 481 427 527 604 852 525 468 484 484 484 484 484 484 484 484 484
Totals	1,035	32	208	390	752	580	136	125	50	145	13,375

Note.—Received, 14,767; discharged, 13,375; prisoners on hand June 30, 1890, 1,392; tansferred to Folsom Prison, in 1881, 253; in 1882, 60; in 1884, 50; in 1885, 2; in 1886, 4; m1887, 1; in 1888, 7; in 1889, 11; in 1890, 50; total, 438. Received by transfer from Folsom Prison, in 1885, 3; in 1886, 3; in 1887, 2; in 1888, 157; in 1890, 50; total, 215.

TABLE No. 21.

Report of Number of	of Days	of La	bor for	Fiscal	Year e	nding	Jun	re 30, I	1890-	Proc	luctive	Clan
Month.	First Shift	Second Shiit		Third Shift	Chair Depart- ment	Engineer's De- partment	partment	Foundry De-	Paint Shop	Tin Shop	Plumber Shop.	Cooper Shop
1889.			İ						1			
July August September October November December	11,70 11,35 10,89 10,44 5,08 6,93	$egin{array}{c cccc} 5 & 7 & 6 & 6 \\ 1 & 6 & 5 & 2 \\ \hline \end{array}$	,699 ,429 ,901 ,785 ,373 ,018		78 81 90 108 104 100	217 276 247 248 237 248	3 3 3	17 30 1 36 1 37 1	58 00 108 182 144	104 108 100 130 127 116	150 135 100 101 136 120	********
1890.  January February March April May	12,29 9,55 9,30 9,52 8,77 8,82	6 6 3 6 7 6 4 5	,345 ,299 ,496 ,743 ,805 ,411	4,913 6,210 5,449 5,483 5,185	52 72 78 63 54 72	247 224 248 238 238 240	1 3 3 3 3 3 3 3	60 43 51 72 98	92 74 78 78 84 99	180 120 290 118 107 100	124 96 104 85 82 75	4 4 4 4 4 4
Totals	114,62	8 76	,304	27,240	952	2,903	3 4,3	62 1,5	201	1,550	1,308	310
Month.	Quarry	Chick'n R'nch	Hog Ranch	Stables	Vegetable Gar- dens	иешь	Flower Gar-	Coal Yard		Carpent'r Shop	Blacksmiths	Wheelwrights.
1889.					1		1					
July	726 1,191 947 782 818 110	31 30 31 30 31 30 31	31 31 30 31 31 30 31	813 771 805 826	1,06 92 83 1,02	4 20 3 23	420 351 345 287 287 249	31 31 30 31 30 31		310 310 275 317 362 243	156 179 150 152 150 125	58 56 56 56 57
JanuaryFebruaryAprilMayMayJune	85 130 179 226 190 175	31 28 31 30 31 30	62	514 532 527 527 534	18 18 19 19 19 19 19 19	52 39 96	367 413 466 453 323 320	31 28 31 30 31 30	B L D	257 229 207 181 269 273	135 148 182 182 157 172	50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50 St. 50
Totals	5,559	365	420	8,086	6,9	04 4	,281	36	5 8	3,233	1,888	50
	<u>'</u>						·			·		

TABLE	No.	21—Continued.
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Month.	Upholsterers	Beltmaker	Locksmith	Improvements	Road Gang	Stevedores	Female Department	Harnessmaker	Grand Total
1889. July	49 27 25 54 52 50	26 27 25 27 26 25	31 31 30 31 30 31	104 108 110 297 987 412	2,361 2,461 1,980 1,621 2,829 493	402 618 504 343 385 265	520 602 550 597 618 593	61 81 49 27 26 25	27,763 27,891 25,613 24,604 17,168 15,874
1890.  January	52 48 52 52 54 50 565	26 24 26 26 27 25	31 28 31 30 31 30 31 30	313 341 337 448 487 580 4,524	853 487 330 384 353 311 14,463	354 285 316 326 318 325 4,436	595 566 628 624 600 578 7,071	25 26 24 26 27 25 422	26,799 25,244 26,802 26,622 44,917 45,316 294,615

#### Non-Productive Class.

Month.	Warden's Office.	Deputy Ward- en's Office	Turnkey's Office.	Secretary's Of- fice	Guards Depart- ment	Commissary Department	Library Department	Laundry Department	Tailor Shop
1889.									
July	25 31 30 31 30 31	31 30 31 30 31 30 31	169 186 180 186 180 186	90 93 90 93 90 93	155 155 150 171 180 189	302 315 299 340 345 317	124 124 94 101 120 124	707 625 624 695 650 624	416 415 380 441 596 503
1890. January February March April May June	31 28 31 30 31 30	31 28 31 21 31 30	185 140 155 150 155 150	92 112 93 90 67 81	186 186 186 180 186 188	852 307 387 387 364 336	146 105 115 149 130 134	660 621 662 661 691 688	429 342 290 295 311 302
Totals	359	356	2,022	1,084	2,112	. 3,951	1,466	7,908	4,720

TABLE	No.	21-Continued.
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Month.	Shoe Shop	Barber Shop	Cell and Room Tenders	Bath Tank Tend- ers	Gate Tenders	Lamp Lighters	Hospital Nurses.		Whitewashers	Sweepers
1889.										
July	292 335 345 286 304 309	184 186 186 186 214 218	620 625 657 666 660 696	31 60 62 60 62	401 401 399 418 404 410	62 62 60 62 60 62	1. 1. 1. 1.	28 25 20 24 20 24	154 230 249 288 286 299	206 211 179 206 229 269
January	308	206	701	62	412	62		24	280	370
February March April May June	248 307 286 352 321	196 189 211 248 240	616 686 699 794 755	56 62 60 62 60	376 350 364 371 390	56 62 60 62 60	1: 1: 1:	12 24 20 24 20	228 212 208 220 197	302 279 242 295 272
Totals	3,673	2,464	8,175	668	4,606	730	1,4	65	2,851	3,060
Month.		Scavengers	General Kitchen.	Outside Kitchen.	Hospital Kitch-	Troube Set Awnes	House Someth	Electricians	Messengers	Telegraph Operator
1889.										
July August September October November December		203 218 210 252 360 302	2,082 1,999 1,961 1,994 2,133 2,153	408 403 393 406 390 404	3 12 3 6 3 6	5 0 2 0	425 425 416 442 384 419	188 64 69 62 60 62	217 218 192 186 180 186	31 30 31
1890.					_				465	et.
January February March April May		390 356 350 355 452 387	2,219 2,124 2,201 2,043 2,077 2,070	406 357 403 411 436 419	7 3 9 1 9 4 9	1 3 0 3	384 339 384 442 701 720	71 72 93 63 62 60	186 167 208 182 186 185	31 28 31 30 31
Totals	Totals		25,056	4,829	1,05	0 5,	481	926	2,293	273
		•							·	

TABLE No. 21—Continued.

Month,	Photographers	Cripples, etc	Patients in Hospital	Unemployed, etc.	Daily Excuses,	Copyists	Warden's Laun-	Grand Total
1889.								
July	62 60 62 60 36	289 360 362 392 338 337	205 266 245 240 238 242	652 695 3,855 10,326 10,485	479 649 582 404 196 182	199 81 81 128 156 140	62 60 62 60 62 62	9,106 9,765 9,498 12,965 19,429 19,650
January February March April May June	52 56 62 60 62 57	407 394 474 496 535 583	275 220 265 248 164 170	738 50 911 1,549 1,919 957	503 407 495 363 593 572	125 96 76 73 81 53	62 56 62 60 62 60	10,610 8,852 10,279 10,628 12,946 9,770
Totals	691	4,967	2,778	32,137	5,403	1,289	730	143,498

TABLE No. 22.

Report of Articles Manufactured, Received, and Issued during the Forty-first Fiscal Year, Commencing July 1, 1889, and Ending June 30, 1890.

		CITIZEN	PANTS.		CITIZEN SHOES.					
1889 AND 1890.	Manufactured	Issued	Received Second Hand	Issued Second Hand	Manufactured	Issued	Received Second Hand	Issued Second Hand		
July Angust September October November December January February March April May June	20 25 24 20 15 18 19 20 24 30 27	18 22 28 18 16 15 14 20 18 19 20 41	12 14 10 15 20 18 19 14 10 9	8 12 19 10 14 18 14 10 9 8 21	32 25 40 30 20 40 22 30 42 42 48 48	30 21 30 40 30 20 18 10 20 20 69	3 2 4 6 4 3 2 1 3 10 2 5	. 2 2 3 5 4 3 4 2 3 6 2 3		
Totals	269	249	165	162	395	385	45	39		

TABLE No. 22—Continued.

TABLE No. 22-Continued.

		CITIZE	COATS.			CITIZE	VESTS.				UNDER	SHIRTS.			Dra	WERS.	
1889 AND 1890.	Manufactured	Issued	Received Second Hand	Issued Second Hand	Manufactured	Issued	Received Second Hand	Issued Second Hand	1889 AND 1890.	Manufactured	Issued	Received Second Hand	Issued Second Hand	Manufactured	Issued	Received Second Hand	lsgued Second Hand
July August September October November December January Merch April May June	26 30 31	24 25 20 21 30 25 21 20 23 23 24 35	8 12 9 11 10 10 8 12 6 14 10 10	3 2 1 2 3 1 1 2 4 6 10 5	24 25 30 20 18 32 20 50 15 10 41 40	20 21 25 24 30 18 29 30 10 35 33	12 13 14 15 10 9 8 7 20 18 10	2 3 4 1 1 1 11 10	July	195 240 160 140 220 100 95 340	140 145 150 200 250 149 150 240 240 190 188 188	25 20 18 20 25 40 18 35 20 18 25 26	20 25 24 18 25 20 18 25 40 10 8	200 240 208 180 260 100 95 80 40 277 200 200	150 140 200 240 160 120 110 100 160 278 150	20 18 30 10 11 31 18 23 24 15 25	20 18 20 19 16 10 8 30 26 10 21
Totals	310	298	120	40	305	295	145	40.	Totals	2,300	2,190	290	245	2,080	1,958	238	208
		Convict	PANTS.			Convict	SHIRTS.		;		На	TS.			BLAN	KETS.	
1889 AND 1890.	Manufactured	Issued	Received Second Hand	Issued Second Hand	Manufactured	Issued	Received Second Hand	Issued Second Hand	1889 AND 1890.	Received	Issued	Received Second Hand	Issued Second Hand	Received	Issued	Received Second Hand	Issued Second Hand
July August September October November December January February March April May June	150 165 100 200 195 140 165 200 145 131 300 200	100 90 180 145 110 95 45 200 165 160 400 350	20 25 15 10 11 19 18 6 35 41 25	10 11 25 18 19 21 30 8 12 13 39 30	185 165 140 121 140 175 180 200 185 225 278 200	150 175 180 121 118 150 240 235 240 210 105	30 20 18 40 38 19 32 16 14 45 73 50	20 18 19 35 40 39 18 20 35 35	July August September October November December January February March April May June	144 24  38	80 20 100 96 40 35 20 40 25 16 16	10 12 15 8 4 9 10 23 18 6 18 7	6 14 12 9 8 16 13 15 14 4 10	50 50 25 100 100 100 100 100	30 25 30 60 34 55 40 60 45 90 76 76	180 200 185 201 185 165 210 220 180 180 100 99	140 160 140 175 160 180 165 140 180 235 100
Totals	2,091	2,040	240	236	2,194	2,004	395	340	Totals	540	500	140	132	625	621	0.10	1.055
10/415		-,020				2,001			100015	040	300	140	152	025	621	2,105	1,875

TABLE No. 22—Continued.

		Convict	SHOES.		HICKORY SHIRTS.					
1889 AND 1890.	Manufactured	Issued	Received Second Hand	Issued Second Hand	Manufactured	Issued	Received Second Hand	Issued Second Hand		
July	190 180 165 140 200 190 200 160 140 160 247 120	180 176 180 190 140 200 190 180 200 190 100 123	15 12 11 9 20 10 9 24 16 9 26 24	12 11 6 19 8 12 14 29 11 15 23	10 11 9 8 7 9 12 6 4 15 6	9 10 8 10 8 9 11 5 6 14 9 3	7 6 8 5 4 8 9 3 12 11 7 5			
Totals	2,092	2,049	. 185	180	104	102	85	45		
	CITIZEN	Shirts.	Soc	KS.	LAMP CH	IIMNEYS.	Вко	ома.		
1889 AND 1890.	Received	Issued	Received	Issued	Received	Issued	Received	Issued		
July August September October November December January February March April May June	12 14 16 20 10 9 12 18 8 6 10 23	10 6 12 9 13 10 8 12 13 9 4	368 420 288 282 420 432 576 432 432 420 192	365 423 290 275 418 431 565 440 420 431 210 95	144 72 444 120 212 480 244 190 244 252 144 144	135 140 75 450 118 210 465 240 245 200 202	108 108 108 72 60 84 72 84 84 84 86 60	10: 11: 15: 55 8 7 7 8 8 8 6 7		
Totals	159	126	4,368	4,363	2,690	2,645	984	960		

## TABLE No. 22—Continued.

#### The Products of the Shoe and Tailor Shops.

:	Con	VICT.	Сіті	ZEN.		Сіті	zen.	Con	VICT.
1889 AND 1890.	New Work— Pairs	Repairs— Pairs	New Work— Pairs	Repairs— Pairs	1889 AND 1890.	New Work— Articles	Repairs— Articles	New Work— Articles	Repairs— Articles
Shoe Shop.					Tailor Shop.				
July	165	40	{ *3 45	20	July	{ *6 54	3	680	
August	140	65	} *6 48	18	August		4	450	
September	180	30	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	16	September	*8 49	2	460	
October	195	26	*8 33	12	October	*3 85	1	1,290	
November	185	45	} *7   56	13	November	*4 90	1	1,110	
December	174	60	3 *4 27	19	December	*6 35	2	980	
January	189	30	1 *9 46	14	January	104	3	640	
February	165	45	*10 35	16	February	(TOO	4	1,011	
March	182	60	\ \cdot *8   24	12	March	6 *4 93	3	960	
April	180	35	} *9 36	11	April	*3 78	2	340	<b></b>
May	165	20	18	16	May	85 *4	6	420	
June	220	10	} *1 18	10	June	\ *3 65	8	640	
Totals	2,140	466	490	177	Totals	973	39	8,981	
*Spanial orders		·———	'		,	·			

\*Special orders.

TABLE No. 22—Continued.

## Material Expended in Manufacture and Repairs for the Forty-first Fiscal Year.

() 	,	Convict.			Citizen,	
1889 AND 1890.	Sole Leather— Pounds	Kip Skins— Number	Nails, Screws-	Sole Leather— Pounds	Calf Skins— Number	Nails, Screws— Pounds
Shoe Shop. July August September October November Jenuary Jenuary March April May June	610 780 1,012 1,196 895 1,014 960 400 300 826 800 813	25 30 24 24 30 18 26 28 21 30 29	53 40 65 44 45 60 80 95 65 80 80 85 86 88	95 100 110 75 80 78 90 84 74 68 75	18 18 18 18 18 18 20 18 18 20 18	20 18 30 65 40 25 15 10 15 2
Totals	9,606	315	800	1,004	220	245

TABLE No. 22—Continued.

## Materials Expended in Manufacture and Repairs for the Forty-first Fiscal Year.

	Сіті	ZEN.		,	CONVICT.					
Cloth—Yards	Linings and Trimmings— Yards————	Buttons-Dozen.	Thread—Spools.	Cloth—Yards	Buttons-Dozen.	Thread—Spools				
185 190 220 215 180 165 140 195	200 195 190 210 205 190 185 210 215 220 207 207	50 48 90 50 45 80 75 80 45 40 100 120	200 195 180 40 60 95 80 45 30 20 25 15	1,195 1,200 210 1,215 220 1,240 245 250 200 220 210 240	200 210 190 185 175 175 200 210 400 160 210 210	300 327 327 316 411 400 427 300 327 300 227 200				
2,379	2,434	823	985	6,645	2,545	3,86				
	200 204 185 190 2215 180 165 140 195 240 245	Cloth—Yards and 200 200 200 210 220 220 215 180 185 185 180 215 180 216 220 240 207 245 207	200 200 50 204 195 48 185 190 90 190 210 50 220 206 45 215 190 80 180 185 75 165 210 80 140 215 45 195 220 40 240 207 100 245 207 120	Clo Virings Buttonse dd-Spools Virings Buttonse dd-Spools So So So So So So So So So So So So So	Cloth Yaring Button add Spools Spools Spools Spools Spools Spools Spools Spools Spools Spools Spools Spools Spools Spools Spool Spools Spools Spools Spools Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool Spool	Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth   He   Cloth				

#### TABLE No. 23.

## COMPARATIVE TABLE OF MEASUREMENTS OF PRISONERS CONFINED IN SAN QUENTIN STATE PRISON, JUNE 30, 1890.

#### Height of Prisoners.

#### TABLE No. 22-Continued.

	TABLE NO. 2.	2—Continuea.						
Between Temples.								
No.  3 inches 9  4 inches 13  4 inches 3  4 inches 57  4 inches 57  4 inches 23	No.  48 inches	No. 412 inches 23 44 inches 3 44 inches 12 inches 5 5 inches 5 5 54 inches 66	No. 51 inches 1 Over 51 inches 1 No measurement 35 Total1,392					
No. 3 inches and less. 28 inches 49 inches 105	48 inches	No. 4½ inches 122 4½ inches 103 4½ inches 20	No. Females 20 To be measured . 15					
# inches118	48 inches 97  Length	of Feet.	Total1,892					
No. 9 inches 45 % inches 136 % inches 136 % inches 95	No. 10 inches	No. 11 inches	No. 12 in. and over 28 Females 20 To be measured 25 Total					
	Length of	Forearm.						
No.   Mainches   3   15   inches   7   15   inches   15   16   inches   16   16   inches   12   16   inches   34   16   inches   24   17   inches   44   17   inches   45   16   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   17   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches   45   inches	No.   17½ inches   89   17½ inches   14   18 inches   75   18½ inches   95   16½ inches   146   18½ inches   127   19 inches   28   19½ inches   36   19½ inches   35	No.  19\(^8\) inches 22 20 inches 64 20\) inches 50 20\(^1\) inches 15 20\(^3\) inches 78 21 inches 98 21\(^1\) inches 24 21\(^1\) inches 59 21\(^1\) inches 38	No.  22 inches					
	Width of	Hands.						
No.   16   16   16   16   16   16   16   1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	No.  38 inches 130 34 inches 48 32 inches 81 34 inches 36 34 inches 42 34 inches 29	No. 4 inches					
	Length of	of Nose.						
No.   inches	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	No. 25 inches 102 23 inches 92 27 inches 10 22 inches 10 25 inches 10 25 inches 10 25 inches 10 25 inches 10 25 inches 78	No. 213 inches 96 24 inches 60 215 inches 8 Females 20 To be measured 15					

#### Diameter of Head.

No.	No.	No.	No
61 inches 15 62 inches 10 63 inches 201 7 inches 512 715 inches 9 715 inches 15 715 inches 120 715 inches 14	75 inches 14 71 inches 54	7½ inches     6       7½ inches     8       8 inches     7       8½ inches     6       8½ inches     18       8½ inches     10	8 inches

#### Chest Measurement.

No.	No.	No.	Ŋ
32 inches       20         32½ inches       12         33 inches       4         33½ inches       120         34 inches       36	35 inches     120       35½ inches     10       36 inches     114       36½ inches     12       37 inches     180       37½ inches     61       38 inches     210       38½ inches     111	40 inches       80         40 inches       1         41 inches       3         42 inches       2         43 inches       1	46 inches 47 inches 49 inches Females

## THE BERTILLON SYSTEM OF MEASUREMENTS.

REPORT OF THE ASSISTANT TURNKEY.

SAN QUENTIN PRISON, June 30, 1890.

Gen. JOHN McComb, Warden:

Sir: In accordance with your instructions of April twenty-fifth, relative to the introduction of the Bertillon system of measurements for the identification of criminals, I beg leave to submit the following report explanatory of the process adopted, together with a compilation of tables exhibiting the result of eighty-four distinct measurements:

#### INSTRUMENTS AND APPARATUS.

The instruments now used are made in France with metrical divisions, and comprise sliding compasses, large size, with which to measure the foot, forearm, and the middle and little fingers, and small size, with which to measure the ear.

#### GRADUATED MEASURES.

One for heights, one for outstretched arms, and one for the trunk. Square to place on the top of the head while taking height and trunk measure, together with stools, tables, benches, etc.

All lineal measures are taken in the metric system in metres, centimetres, and millimetres, instead of in feet and inches, and fractions of an inch

A metre is equal to thirty-nine inches and three hundred and sixtyeight one thousandths of an inch, American standard, or thirty-nine inches and three hundred and seventy one thousandths of an inch, English standard.

A centimetre is equal to three thousand nine hundred and thirty-seven thousandths of an inch, English.

A millimetre is equal to three thousand nine hundred and thirty-seven bundred thousandths of an inch, English.

In round numbers, thirteen inches equal thirty-three centimetres, or tixty-five inches equal one hundred and sixty-five centimetres and one willimetre.

The following is the order in which measurements and descriptions of pisoners are taken, the subject being barefooted and in shirt sleeves:

## First-The Height.

The measurement of the prisoners standing erect.

#### · Second—The Outstretched Arms.

The measurement from finger tip to finger tip, the arms being extended right angles to the body.

#### Third—The Trunk.

The measurement from the bench to the top of the head of a person seated.

Fourth—The Length of the Head.

Measurement from the cavity at the root of the nose to the remotes point of the back of the head.

Fifth-The Width of the Head.

Measurement of the diameter from side to side, between the two point most remote from each other, situated over the ears and on a horizontal plane at right angles to the measurement of length.

Sixth—The Ear.

Measurement from the top of the rim to the lowest point of the love

Seventh—The Left Foot.

Measurement from the extreme of the back of the heel to the end of the farthest projecting toe.

Eighth-The Left Middle Finger.

Measurement from the point of the knuckle to the tip of the finger the finger being placed at right angles to the back of the hand.

Ninth—The Left Little Finger.

Same as for middle finger.

Tenth-The Left Forearm.

Measurement from the point of the elbow to the tip of the farther projecting finger, the elbow being placed at sharp angles with the uppearm.

Eleventh—The Left Eye.

Analysis of the colors of the eye:

(a) The color of the inner (central) circle, pigment.

(b) The color of the extreme (peripheric) circle.

- (c) The possible confusion of the pigment (a) with an adjoining class.
  - (d) Peculiarities.

Twelfth-The Nose.

- (a) The profile form of the ridge, root, and base.
- (b) The dimensions: length, projection, and breadth.
- (c) Peculiarities.

· Thirteenth—The Forehead.

The inclination, apparent height and width, and peculiarities.

Fourteenth-Marks and Scars.

Nature and origin, direction or inclination, approximate dimensionand accurate location with regard to specified points of the body.

#### PHOTOGRAPHED.

Two views, one a profile of right side of face and one of full face.

During the past three years about twenty penal institutions in the United States have adopted the Bertillon method of identification.

The descriptions are filed in the central office at Chicago, and in the event of subsequent arrest and remeasurement in any part of the world, the remarkable accuracy of the system makes identification absolutely certain.

CHAS. N. FISH, Assistant Turnkey.

#### BERTILLON MEASUREMENTS

At State Prison, San Quentin, California, April 28 to June 30, 1890, inclusive.

Regis		Hea Leng	d, th.	Hea Wid	d, th.	Mid Fing	Middle Finger.		ot.	Fore	Forearm	
Register Number.	Names.	Centim,	Mil.	Centim,	Mil	Centim	Mil	Centim	Mil	Centim	M11.	
14109 - 14110 - 141111 - 14112 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118 - 14118	Gunther, Frank Newell, Robert. Forrest, Wm. C. Mahoney, Richard Williams, John Mier, Antone West, Charles Owens, B. B. Johnson, Edward Young, Leng Tryon, Walter Benton, Charles Merrill, George. Smith, John Wilson, Frank McCann, T. E. Burlingham, James Foke, Wong Ah Rice, Lee Stewart, Ovid Mersnglia, Elia Vlansich, Joseph Alexander, M. W. Flowers, Dan Casey, James Haynes, William Russell, John F. Sanborn, S. Sanborn, S. Sanborn, G. Brown, Billy Keats, John O'Neil, John Bacigalupo, Dominico Bancker, James W. Kane, Joseph Wilson, T. R. Miller, Joseph Wilson, T. R. Miller, Joseph Wilson, T. R. Miller, Joseph Wilson, W. Smith, Frank Basham, W. Corlew, Charles W. Clinton, Avery Castro, Andreas Dover, James Menneglier, Emile Bartlett, James Hing, Ah Wheeler, Charles Mendoza, Anthony Paine, W. A. Smith, Frank Wilson, Henry Henninger, William Winsly, Frank Martinez, Juan Hubbard, George Harmon, W. F. Olivera, Fank Madison, Myrtle Johansson, Jonas P.	19 19 19	4469 556671 6333453 771154699697 224627844792363311445624322817	15 16 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	4228 48 535511644 77618 59664368142678521249 74714349718325116	11 11 10 12 10 11 11 11 11 11 11 11 11 11 11 11 11	36932818894623 2 574271296 416136433387773141331217437 582926	25 23 246 27 25 28 26 25 24 26 26 25 25 25 25 25 25 25 25 25 25 25 25 25	56789549735 81948618 62459721451386 371 5927769711158938365816	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

#### BERTILLON MEASUREMENTS-Continued.

Regi	•		Head, Length.		Head, Width.		Middle Finger.		Foot.		arm.
Register Number	NAMES.	Centim	Mil	Centim.	М11,	Centim.	Mil	Centim	Mil	Ćentim	Mil
14184 - 14185 - 14186 - 14187	Homer, Charles F. Stewart, Harry Sierstedt, Charles Thompson, A. W. Hung Chung Burke, William Reese, Frank King, Maria	18 19 19 18 19 19 19 19 18 19 18 17 19 18	8 6 6 6 5 6 4 1 6 7 2 1 6 2 9 4 2 9 4 2 9 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	14 15 15 16 16 14 14 14 15 15 15 15 15 15 15	2 2 2 7 2 9 7 3 6 6 1 4 7 2 6 2 5 6 4 3 6 4 3 6 4 3 6 4 3 6 4 4 3 6 4 4 3 6 4 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 4 3 6 3 6	10 11 12 11 11 11 11 10 11 10 11 10 11 11 11 11	1 1	23 26 28 25 25 26 26 26 22 24 27 23 26 26 26 26 27 28 27	7 2 6 8 6 3 5 3 8 5 5 7 1 4 1 6	42 48 47 47 45 47 46 42 43 48 48 45 47 47 43 47 47 43 47	6 4 7 6 4 17 5 3 3 8 8 9 8 2 3 8 8 1 6

\*Left middle finger badly deformed; above measurement is the right middle finger. | Left foot partially amputated; above measurement is the right foot.

## BERTILLON MEASUREMENTS-Continued.

Regis		Heig	ht.	Outstret'd Arms.	Trunk.	Ear.		Little Finger,	
Register Number.	Names.	Centim	Mil	Centim	Centim	Centim	Mil	Centim	MIL
14109 - 14110 - 14111 - 14112 - 14113 - 14116 - 14116 - 14117 - 14118 - 14118 - 14118 - 14119 - 14121 - 14122 - 14123 - 14124 - 14125 - 14126 - 14127 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128 - 14128	Gunther, Frank Newell, Robert. Forrest, Wm. C. Mahoney, Richard Williams, John Mier, Antone West, Charles Owens, B. B. Johnson, Edward Young, Leng. Tryon, Walter Benton, Charles Merrill, George Smith, John Wilson, Frank McCann, T. E. Burlingham, James Foke, Wong Ah Rice, Lee. Stewart, Ovid Mersnglia, Elia Vlansich, Joseph Alexander, M. W. Flowers, Dan Casey, James Haynes, William Russell, John F. Sanborn, S. Sanborn, C. Brown, Billy Keats, John O'Neil, John Bacigalupo, Dominico Bancker, James W. Kane, Joseph Long, T. R. Miller, Joseph Long, T. R. Miller, Joseph Wilson, W. Smith, Frank Basham, W. Corlew, Charles W. Clinton, Avery Castro, Andreas Dover, James Menneglier, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mennegler, Emile Bartlett, James Hing, Ah Wheeler, Charles Mendoza, Anthony Paine, W. A. Smith, Frank Wilson, Henry Henninger, William Winsly, Frank Martinez, Juan Hubbard, George Harmon, W. F. Olivera, Frank Madison, Myrtle Johansson, Jonas P.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26 62 65 35 55 52 41 55 43 58 5 5 24 97 5 5 17 6 27 5 5 6 7 5 6 7 5 7 5 7 5 7 5 7 5 7 5 7	1m 79 1 771 1 699 1 782 1 782 1 1 889 1 1 865 1 1 776 684 1 1 879 1 1 883 756 1 1 883 756 84 1 1 777 75 84 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	991926668333553331994255583418338893986888754443188315588534451485157518338589888887555	676666666666666666666666666666666666666	3 75343 372217 522233 418939838628622 58196524675727738846258	98899899277898899888998889997789999988888888	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon

#### BERTILLON MEASUREMENTS-Continued.

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Regi		Hei	ght.	Outstret'd Arms.	Trunk,	runk, Ear.		Little Finger.			
Register Number.	Names.	Centim	Mil	Centim	Centim,	Centim	Mil	Centim	Mil		
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## PHYSICIAN'S REPORT.

June 30, 1890.

To General John McComb, Warden California State Prison at San Quentin:

SIR: While the death rate is smaller than last year, yet it has not kept within my expectations, being but two less than the previous year. This was due to the very severe weather we had in January, when the whole country was suffering from the "Grippe;" the men, while not dying from the "Grippe," were so affected by it that they never recovered; this, particularly among men who were troubled with lung difficulties. Thus, we had ten deaths in April, which was an unusual number; but you will see by the tables that this occurred among the phthisical patients almost entirely.

I think I can see the benefit of the resolution of the State Board of Prison Directors, passed about a year ago, requesting all prisoners troubled with lung difficulties to be sent to Folsom, in the decreased number of consumptives coming to this prison; there is certainly less consumption here than formerly. I have but two or three that show evidence of that

trouble at present.

The only approach to an epidemic we have had is that of "La Grippe" in January, when nearly two hundred men were laid up with it. But as a convict is a creature of circumstances (one getting sick because he sees his neighbor sick) in a marked degree, I don't doubt that in many cases they were not nearly so sick as they pretended. With the unusually bad weather we had, it is fortunate that so few deaths occurred, only one

dving from direct cause.

The sanitary condition of the place was never in as good condition as at the present time, due to your prompt adoption of my suggestion to have the walks asphalted, a new cesspool constructed, the ground around the swimming tank and all the ground back of the cell house covered with bituminous rock. The putting in of a new cesspool I consider to be one of the best improvements that has been made in years. The buckets are all emptied into this every morning, thus leaving the cesspool free from this accumulation, and as the place around is all laid with bituminous rock, it is easily kept inodorous and clean by flushing thus preventing the smell that constantly arose from it when we only had the bare bricks.

The new roofs of corrugated iron on the cell buildings have made these structures far more comfortable—as nearly perfect as it is possible to make old cells constructed without care as to sanitary conditions.

The cells have all new bunks in place of the old ones that have been torn out, making it possible to keep out the vermin, so that the men are troubled with them to a minimum degree.

The health of the prison has been about as usual; the calls have been somewhat more numerous than before, but the excuses are less than last year.

The following tables show the number of deaths, cause of death, the

month in which they died, and the number in the hospital during the month:

July, 1889—Number in the hospital, 14. L. G. Sessocovich, bronchial asthma.
August, 1889—Number in hospital, 16. G. W. Scroggins, bronchitis.
September, 1889—Number in hospital, 18. R. Martinez, phthisis.
October, 1889—Number in hospital, 15. R. Morales, cystitis; Thos. Carrick, consumption; C. Mendosa, consumption; How Ah Fook, abscess on back; Wong Ah Hung, general debility.
November, 1889—Number in hospital, 15. Jim McElarney, scrofula; Wm. Gallagher, consumption; Thos. Rifley, pneumonia; C. Quinthero, heart failure; T. Espinosa, consumption.
December, 1889—Number in the hospital, 21. A. Johnson, rupture pulmonary artery; W. H. Stroupe, heart clot. These two men fell dead in the yard.
January, 1890—Number in hospital, 23. Ying Sing, consumption; W. B. King, pneumonia; Thos. Finnerty, consumption.
February, 1890—Number in hospital, 20. P. Sepulveda, pneumonia; So See Rack, consumption.

March, 1890—Number in hospital, 18. Jim Kahala (Indian), asthma; Chin Tong Jim, scrofula; Guy Shell, consumption; John Adam, cirrhosis of liver; John Miller, pneumonia; S. S. Hildebrandt, consumption; Ed. Hanley, consumption; M. Sementic consumption.

ario, consumption; A. Angula, consumption; Geo. Langley, consumption.
May, 1890—Number in hospital, 10. No deaths this month.
June, 1890—Number in hospital, 11. Robert Smith, suicide. This prisoner caused death by severing both radial and ulnar arteries at the wrist and bleeding to death.

#### RECAPITULATION.

	Consumption	15
	Pneumonia	4
	Bronchial asthma	$\bar{2}$
	Cystitis	1
,	Abscess on back	ī
	General debility	ī
	Scrofula	2
	Heart failure	1
	Rupture of pulmonary artery	$\bar{1}$
١	Heart clot	1
	Cirrhosis of liver	ī
	Asthma	ī
	Suicide	1
		_
	Total	32

In this connection I wish to remark on the unusual number of deaths which occurred in April. The hard weather of January found us with a large number of consumptives on hand; and although they were in the hospital and received the best care, they steadily failed, and the end came during the month of April—no less than six dying of consumption alone during that month—thus confirming my predictions to you in the matter.

In contrast with the death rate for April, I call attention to the fact that there were no deaths during May, and only one in June, and that a suicide.

But for the number of deaths in April, and from the debility caused by the epidemic, the rate for the year would not exceed 2 per cent.

On looking at the statistics I find that in the first quarter there were calls, 1,194; excused, 490. Second quarter: calls, 1,109; excused, 244. Third quarter: calls, 1,773; excused, 548. Fourth quarter: calls, 1,485; excused, 559. Making a total of 5,561 calls and 1,841 excused—this with a monthly average of 1,381 men.

We have an increased number of convicts, and a less number of deaths—the death rate this year being  $2\frac{1}{3}$  per cent instead of  $2\frac{1}{2}$  per cent last year.

We have had two deaths from heart disease—men who fell dead and

ought not to be charged to the sick list—and one man from suicide, making only twenty-nine deaths that ought to be charged to the sick list. With these three deducted we have a death rate of only 2 per cent.

In conclusion, I wish to thank you for many favors received, many suggestions listened to, for uniform courtesy and unfailing kindness and consideration from yourself and my brother officers.

Very respectfully,

F. C. DURANT, M.D.

## REPORT OF THE WARDEN

OF THE

STATE PRISON AT FOLSOM, CALIFORNIA.

# WARDEN'S REPORT.

To the honorable State Board of Prison Directors:

GENTLEMEN: I have the honor to submit herewith my annual report for the forty-first fiscal year, ending June 30, 1890, including the reports of the Deputy Warden, Physician, and Commissary, showing in detail the operations of the Folsom State Prison.

The report of the Clerk of the prison, also submitted herewith, sets

forth fully the financial transactions of the prison for the year.

The last Legislature, at my request, reduced the appropriation for the support of the prison from \$250,000 for the thirty-ninth and fortieth fiscal years, to \$220,000 for the forty-first and forty-second fiscal years.

The average number of convicts on hand during the fortieth fiscal year was 488.3. For the forty-first fiscal year, just closed, we had an average of 623, an increase of 134.7. This increase was far beyond our calculations, and necessitated a slight increase in the guard force.

Under the circumstances, it is with pleasure that I am enabled to report that our expenditures have been kept within the reduced appropriation, and that we will have sufficient funds for the forty-second

fiscal year without a deficiency.

As shown in detail by Table No. 8 of the Clerk's report, the net cost of maintenance for the year was \$105,241 48. Average number of prisoners on hand, six hundred and twenty-three. Per capita per diem, 45.8 cents.

This is a reduction in the per capita per diem cost of 8.8 cents from the previous year. This reduction is caused by a variety of reasons: principally by close attention to the details of expenditures, requiring contractors to supply goods fully up to the standard, and by the increased number of prisoners. As claimed in a former report, the larger the daily average of convicts the cheaper they can be cared for, and the less should be the per capita per diem cost.

By reference to Table No. 7, of the Clerk's report, it will be seen that there was a balance on hand of available cash assets, after discharging all liabilities for the year, of \$14,872 79, which, added to the appropriation of \$110,000 for the forty-second fiscal year, will afford ample resources to

meet all liabilities to July 1, 1891.

During the year we cut but little stone for sale, as our force was employed on the dam and canal. We supplied the stone, in the rough, for the steps and driveway of the State Capitol grounds, and for one small private job.

The net profit of the quarry was \$1,968 98; profits of the farm, \$3,567 49; labor, \$210; making a total of earnings for the year of

\$5,694 47, as shown by Table No. 4, of the Clerk's report.

The last Legislature appropriated \$112,500 for the construction of a power house to utilize the water-power of the American River, necessary wheels, machinery, etc., to operate the same, pump and pipe for irrigating purposes, and other expenses incidental thereto.

On July first there had been expended of this appropriation (Clerk's

Report, Table No. 7) \$50,986 97, leaving a balance of \$61,513 03. The foundation of the power house, by far the heaviest portion of the work has been completed up to the water level. The double turbine wheel six in number, are ready to go in place, and we confidently expect to utilize the power in time for irrigating next spring.

REPORT OF STATE BOARD OF PRISON DIRECTORS.

### THE DAM AND CANAL.

In connection with the power house, work has progressed steadily of the dam and canal during the past year. The unusual floods and long continued high water of last winter and spring retarded the work of the dam very materially. At times the water passed over it to a dept of twenty feet. The dam stood this severe test in its unfinished con dition without the slightest damage, and as it will be completed before it is called upon to stand another such test, there need be no fears of it permanence and stability.

The work taken together—the dam, canal, and power house—is d such unusual magnitude that it can only be appreciated by a personal

inspection.

There has been laid in the dam, canal wall, and power house, up to the present time, over forty-four thousand cubic yards, or one million one hundred and eighty-eight thousand cubic feet of stone. There have been shipped out nearly eight thousand cars of rubble rock and decom posed granite. Sixteen thousand barrels of cement have been used.

These figures will only give an inadequate idea of the amount of labor performed since the inception of this work two years ago.

The dam proper and head gates will certainly be completed before the winter rains. That places the river under control, and leaves the balance of the work easy of accomplishment. As it takes the question of the elements entirely out of the calculation, I confidently hope to complete the State portion of this work during the early portion of next season.

It will not be amiss in this report to refer to the circumstances under which this work was recommended two years ago by your honorable Board.

The following letter, written by myself, in response to a request from the Governor's office, covers the entire subject, and I submit it in full

STATE PRISON, SACRAMENTO COUNTY, CAL., November 16, 1889.

Hon. M. D. BORUCK, Private Secretary:

DEAR SIR: I inclose you herewith, as per your request, copies of the propositions submitted by H. P. Livermore, President of the Folsom Water Power Company, to the Boar of Directors, together with the subsequent contract made after the acceptance of the proposition. As sent you, it is taken from the official record, copied by the Clerk of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the proposition of the propositio

You will recollect that the proposition submitted by Mr. Livermore was in response an invitation by Governor Waterman, sent from the prison on the eighteenth of April 1888. The Governor, in company with Mr. Steffens, Secretary of State Hendricks, as some other gentlemen, visited the prison on that date, and, after an examination in the conditions of the contracts then existing between the State and the Folsom Water and the Folsom Water and the State and the Folsom Water and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State and State a Power Company, as the successors in interest of the Natoma Water and Mining Con pany, and realizing the value to the State of the resultant power on the completion the works as then proposed, he invited Mr. Livermore to meet him and the State Box of Prison Directors on the fifth day of May following for the purpose of coming to amicable understanding that would result in the immediate prosecution and complete of the dam and canal.

To make the matter plain to you I will go back to the history of the legislation while resulted in the selection of the present site of what was intended at that time to be Branch State Prison; that will also throw some light upon the subsequent contracts made with the Natoma Water and Mining Company, through their agent, Mr. H. G. Livermore, which subsequently passed into the hands of his two sons, who now represent the Folsom Water Power Company.

In 1858 the Legislature authorized the Board of Prison Directors to select a site for a Nature Nature Power Company.

Branch State Prison. Ten years passed without anything being done under the provisions of that Act. The Legislature of 1868 again took up the matter, and directed the Board of Directors to select a site before the first of July, 1868, and limiting the selection

to two sites, i. e., Rocklin or Folsom.

The Board of Prison Directors decided to locate the Branch Prison on its present site on the thirtieth day of June, 1868), and that day obtained from the Natoma Water and Mining Company a deed for three hundred and fifty acres of land, supposed to cover all the quaries necessary for prison purposes, and also the right to the first five feet tall of the panal. The consideration in this deed was that the State should pay \$15,000, in convict abor, to be used on said canal (upon which work had been started by the Natoma Company), and the dam necessary for the same, at the rate of 50 cents per diem for each convict capable of such work, to be paid for at the completion of said work; that is to say, the consideration from the State to the Natoma Company, i. e., the convict labor aforesaid, was to be delivered to the company as soon after the completion of the prison as was practicable.

Six years passed, and still nothing was accomplished. In 1874 the Legislature passed snother Act, authorizing the construction of the prison, and appropriating \$175,000 for

Upon the proper surveys being made, it was discovered that the three hundred and fifty acres secured to the State by the deed of June 30, 1868, did not cover all the lands desired by the State, and, in fact, did not cover the lands upon which the present prison building is located.

The Board of Directors then secured another deed from the Natoma Company, for one

hundred and thirty-three acres of land, the consideration being the same as in the first deed, viz.: \$15,000 payable in convict labor at 50 cents per diem for each convict, under the same conditions as the former deed.

The beginning of work on the prison in the fall of 1874, the failure of Contractor Miles, the cessation of work for a period of three years, are all facts you are familiar with, and it was not until July, 1880, and after a subsequent contract had been entered into with Mr. Livermore, looking to the employment of three hundred and fifty convicts, which was made a condition of the final appropriation, made by the Legislature in 1878, that the prison was completed and occupied.

Now, bear in mind, that when the prison was completed in July, 1880, the State had not paid anything for the lands so deeded, as above, nor for the quarries upon said land, nor for any other purposes; the outlay had been solely for the construction of the build-

ings.
In the first two contracts it was agreed and understood that upon the completion of the prison and its occupancy, the labor should be furnished for the construction of the company's dam and canal, of which the State was to receive a five-foot fall, from a thirty-foot canal, equal to about two hundred and twenty horse-power.

Prior to the occupancy of the prison, the Natoma Company had expended, as shown by their books, \$119,000, in the construction of the railroad from Folsom to the site of their dam, and in putting in the foundation for their dam, which was done in 1868.
In the fall of 1881 the Folsom Water Power Company, as the successors in interest of the Natoma Water and Mining Company, made a demand upon the Board of Directors

the Natoma Water and Mining Company, made a demand upon the Board of Directors for the labor necessary to complete their dam and canal, in accordance with the deeds retofore made to the State. After some little delay some eighty convicts were assigned work upon the line of the canal.

Very soon a difference arose between the Water Power Company and the Board of Directors as to the proper construction of the deeds, or grants, to the State. That is, me thing, or whether they were separate deeds calling for sixty thousand days' labor in

the aggregate.
The Board of Directors, under the advice of Attorney-General Hart, held to the former lew, which position was disputed by the Water Power Company, and ended in the latter manany withdrawing their men and refusing to proceed further with the work under Web conditions. Subsequently the State, through the Attorney General, brought suit sinst the Water Power Company to compel them to proceed with the construction of dam and canal, which suit was decided by Judge McFarland, of the Superior Court Sacramento, adversely to the State. An appeal was taken to the Supreme Court by Attorney-General, and that Court sustained the decision of Judge McFarland. was, in effect, that the State was powerless to enforce the completion of the dam and

After the decision of the Supreme Court the matter remained in abeyance, and no ther attempt was made to proceed with the work until it was taken up by Governor terman in April, 1888.

went to Sacramento to see him about it, and pointed out the advantages to be derived the State by the early completion of the work. He readily grasped the situation, and a visit to the prison on the eighteenth of April, spoken of above.

A May fifth Mr. H. P. Livermore, the Manager of the Folsom Water Power Company,

the State Board of Prison Directors in the Governor's office in Sacramento, and,

after a long consultation, and many plans and suggestions were made by both partial adjournment was taken to Folsom Prison, the Governor also being present, and on the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra evening proceedings were had of which I send you the record.

REPORT OF STATE BOARD OF PRISON DIRECTORS.

You will note that Livermore's first proposition was rejected, and he was permitted offer a second proposition, which was far more beneficial to the State.

You will also note that in the subsequent contract no specific number of days' labor agreed upon, for several reasons.

First, we were in this condition: the Folsom Water Power Company owned the land front of the prison and inside of the line of the canal, which completely barred of ingress and egress to and from the prison. They also owned the railroad, without

use of which our quarries would have been of no value.

In the crude deeds and contracts originally made, there were a great many thin omitted that were of absolute necessity to the State, and, especially to a large pul institution of this kind; among them was the right to pump water across the lands of institution of this kind; among them was the right to pump water across the lands of company, the right of ingress and egress over their lands, the right to maintain gaposts and warehouses upon their lands, without which the working of the prisoners conton thave been accomplished in the quarries, probably deemed of no importance at time the original deeds were made. With a population of six hundred to eight hunds people, and with half a million dollars' worth of property, now owned by the State, the rights and privileges became of vital importance; and Mr. Livermore, who was a anxious to complete the dam and canal, realized that the concession of these priviles to the State was of too great a value, and held on to them with some degree of tenacing Again, the original deeds called for only five feet fall. In 1868, when that deed we made, that was supposed to be all that would be necessary for any use; but twenty yet have made a vast change in the uses of power, and the requirements of public institutions, occasioned by the large increase of population, and particularly the use of was for irrigation, power, etc.; hence, what would have been considered amply sufficient 1868, was comparatively insignificant in 1888; and if the State was going to construct fitself a water power, it would have been extremely bad judgment to have expended timelabor, and money upon a scheme that would have been totally inadequate to their wants.

labor, and money upon a scheme that would have been totally inadequate to their want hence, it was decided by the Board, with the concurrence of the Governor, that it was better to accept the original contracts as the basis of future operations, and enlarge to same so as to fully meet the future requirements of this institution in point of power and water for irrigation and domestic use; hence, the canal was enlarged from thirty is to fifty feet in width, and the State fall was increased from five feet to seven and thirty the three hundredths feet, giving to the State over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power instead of the state over eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundred horse-power eight hundr

hundred and twenty horse-power, as was originally contemplated.

Now, in regard to the privileges secured to the State, and the protection of the right of the State, you will observe by a close scrutiny of the contract that the State is the

oughly protected at every point.

The Water Power Company agrees to furnish all material for the construction of dam and canal, the engineering plans and details, and to grant to the State all privile asked by the State, viz.: The perpetual use of their railroad from the town of Folson free of cost; the right to pump all water for irrigation and domestic use upon any port of the said lands; the right to maintain guard towers and warehouses upon the lands the company; the right to run sewage across their lands to the river; to obtain gray from the bed of the river; to construct roads upon their lands, and the perpetual right ingress and egress over their lands.

I contended then, and contend now, that outside of the water power obtained by State, that these privileges, rights, easements, etc., were of more value to the State the

all the labor the State will expend upon the dam and canal.

Until these questions of privileges and easements were settled, the claims of the Wa Power Company were a constant menace to the property of the State, and, without proper adjustment of the same, it would have ended, eventually, in the State being complete to bring suit for a condemnation of their property, which would have involved large outlay of money, or else the abandonment of the prison and total loss of all money. heretofore expended.

You will note, also, that the entire water of the canal must flow through the State fa or, in other words, the Water Power Company gets no water whatever, except who passes through the State fall, and that the right to that water is perpetual; hence water Power Company has no control whatever over the power of the State; the deed

absolute and unqualified.

You will note also the penalties attached for a failure on the part of the Water Po Company to comply with the conditions of their contract. For any failure on their parties they forfeit all rights and privileges, while those granted to the State remain in full for and effect. The State, however, incurs no penalty whatever. The Water Power Cepany is simply dependent upon the good faith of the officers of the State to carry their part of the contract, with no penalty attached for a failure so to do.

If the various officers of this State are at all times as zealous in guarding the State interest as was done in this particular instance, we will certainly be fortunate bey

anything that has ever occurred heretofore. To the credit of the Board and the Gove who was instrumental in bringing this contract about, they need not be ashamed to be every line of the contract scrutinized by even the San Francisco "Chronicle."

Now, as to the value of the power to the State, and the uses that can be made of

the State:

It is conceded that water power is worth the amount that the difference in cost between seam and water power will pay interest upon.

The "Leffell" Company, who manufacture the best waterwheels in America, with the plans and specifications of the State fall furnished them, figure that with six turbine wheels, under the conditions of the present canal, they will develop one hundred and hirty-four actual horse-power to each wheel, that would make a total of over eight hunred horse-power for the six wheels.

It is estimated that with the present price of coal and fuel in this State, each horse-lower developed by steam costs for fuel alone from \$80 to \$100 per annum.

Taking the former figure as a basis, eight hundred horse-power at \$80 each per annum for fuel, would cost \$64,000 per annum; to generate the eight hundred horse-power giveloped by water would cost \$64,000 per annum less than if generated by steam power. Sixty-four thousand dollars per annum is good interest upon a million dollars; hence, the water power obtained by the State-under the present arrangement is worth, as a business proposition, over one million dollars; such is the estimate of such eminent engineers as Colonel A. W. Von Schmidt, General Alexander, and any others who will take the trouble to examine into the question.

In addition to the value of this power, we will obtain water sufficient to irrigate our truct of five hundred acres, which of itself renders it, as an agricultural proposition, of reat value. We expect, upon completion of the power, to utilize a portion for electric lights, for pumping water for irrigation and domestic use, for handling our derricks in the quarries; and, when that is accomplished, we will still have more than five hundred horse-tower unused, and the Legislature will be called upon to solve the problem of how this

can be best utilized.

I believe I have gone over the main points involved in this entire matter, and from what have said, and from the contracts and propositions submitted by Mr. Livermore, you can gain an intelligent idea of the actual condition of the matter.

Anything that does not appear quite plain, I will take pleasure in elucidating at length, but I fear I have already taxed your patience to the limits, and am
Yours, respectfully,

CHARLES AULL, Warden.

At a regular meeting of the State Board of Prison Directors, held at Folsom Prison, May 5, 1888, there were present Directors Devlin, Sonntag, Scrivner, Luttrell, and DePue.

In response to invitations from his Excellency Governor Waterman, H. P. Livermore, Manager of the Folsom Water Power Company, submitted a proposition to renew the work upon the dam and canal of the olsom Water Power Company, in conjunction with the State, said

roposition dated San Francisco, May 3, 1888.

After the reading of the proposition, Director DePue moved that said roposition be rejected. The "ayes" and "noes" on this motion being emanded by Director Luttrell, were taken as follows: "Ayes," Devlin, antag, Scrivner, Luttrell, and DePue. "Noes," none. Thereupon, on motion of Director Scrivner, it was unanimously ordered that the blsom Water Power Company be permitted to submit another proposiin; whereupon, said Folsom Water Power Company, represented by P. Livermore, Manager of said company, submitted a written propotion, with certain documents annexed marked exhibits "A," "B," "C," d "No. 3." and made a part thereof, as follows, viz.:

FOLSOM PRISON, May 5, 1888.

econd proposition to the honorable Board of Directors of the State Prisons of the State California:

\*\*MEREAS\*\*, The Natoma Water and Mining Company, a corporation, did, by two eral deeds, dated June 30, 1868, and June 3, 1874, duly convey to the State of Califia certain lands therein described, for the purpose of the erection of the present State toon at Folsom, California, upon the terms and conditions therein expressed; and, Thereas, The said State did, on the twenty-ninth day of January, 1878, enter into a fain other contract with one H. P. Livermore, for the purpose of giving employment the prisoners of the state Prison at Folsom, all of which deeds and contracts how subsisting, valid and binding agreements by and between said parties and their

tow subsisting, valid and binding agreements by and between said parties and their respectively, this interest, copies of which are hereunto annexed, marked, respectively, this "A," "B," and "C;" and, thereas, It appears from said contracts and other proceedings of the State and its respectively, that are the subject, that it was and always has been the

desire and intention of the State and of its officers and agents, to aid in the construction a dam and suitable canal or canals on the left bank of the American River, as and said conveyed to the said State, and of thereby acquiring a valuable and permane water power for the uses and purposes of the State; and,

REPORT OF STATE BOARD OF PRISON DIRECTORS.

Whereas, By reason of unforeseen obstacles beyond the control of the several parties the said contract, they have been unable to execute and complete the same according the original intent of said parties, particularly having been unable to build and const

said canal or canals, etc., as was originally contemplated; and,

Whereas, The said State did immediately upon the execution and delivery of a deeds take possession of the lands so conveyed, and ever since have, and does now, occurrence to the said State did immediately upon the execution and delivery of a deeds take possession of the lands so conveyed, and ever since have, and does now, occurrence to the said State did immediately upon the execution and delivery of a deeds take possession of the lands so conveyed, and ever since have, and does now, occurrence to the said State did immediately upon the execution and delivery of a deeds take possession of the lands so conveyed, and ever since have, and does now, occurrence to the said State did immediately upon the execution and delivery of a deeds take possession of the lands so conveyed, and ever since have, and does now, occurrence to the said State did immediately upon the execution and the said State did immediately upon the execution and delivery of a deeds take possession of the lands so conveyed, and ever since have, and does now, occurrence to the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the execution and the said State did immediately upon the said State did immediately upon the said State did immediately upon the said State did im and possess the same under grant of said deeds, but has not paid the consideration

whereas, The undersigned is now the owner by assignment of all rights and privile conferred by said agreements, and each and all of them, and is now desirous of proceed with the said work of construction to completion of said canal or canals under and p suant to and by virtue of said agreements, and in execution and fulfillment thereof order that it may have and enjoy the consideration which is agreed to be paid to it or grantors by said contracts; and,

Whereas, The said State has heretofore taken possession of, and does now occupy possess many rights, privileges, and easements and properties belonging to the un signed, without its consent and adversely to its interests, and all of which will more in appear from map "Exhibit 3" and the accompanying report of H. T. Knight, referen

to which is hereby specially made as a part hereof; and,

Whereas, The occupation of said last named rights, privileges, and properties by said State is liable to result in various trouble and litigation, unless an adjustment thereof is amicably concluded; and now, therefore, in the condition of the premises, as for the purpose of carrying out said agreements, and to conclude an equitable adjustme of all the matters heretofore referred to, and all matters incidental thereto, the sa undersigned, the said Folsom Water Power Company, hereby submits to your how

able Board the following, viz.:

First—If the State will furnish the said company the labor necessary to construct said dam, and the said canal along the lands of the said State described in said dea and pertaining to the said canal, down to the point known and described in the pla and specifications of said Knight as "Robbers' Ravine Mud Sink."

Second-The said dam shall be constructed in accordance with the plans and specifi tions heretofore made by the said Knight (which are filed herewith), reference to wh

is hereby made as a part hereof.

Third—The said canal shall be forty feet wide on the top, and thirty feet wide on bottom; and a sufficient depth to carry water eight feet deep on a grade of one in thousand feet—and in accordance with the maps, plans, and specifications made by said Engineer Knight (and filed herewith), reference to which is hereby made as a pi hereof.

Fourth—The undersigned will, by proper contracts and conveyances, give to the St the exclusive and complete use of the power resulting from the first fall, which shall seven and thirty-three hundredths feet fall, and the privilege of raising by pumps other means from the canal whatever water may be deeined to be necessary for the use the said Folsom Prison by the Warden of said prison, or other officer in charge there or as such Warden or other officer may deem necessary or beneficial or useful in about said prison, or any of the prison buildings, or in or upon any of the lands of State, for irrigation or other purposes, and said preparation and use being in all cases carried by said Warden or other officer of said prison as to prevent wastage, as fat possible, and such preparation or use shall always be reasonable, useful, and econom and nothing herein contained shall be so construed as to permit said Warden or of officer in charge of said prison to make any unnecessary, useless, or wasteful use or prearation of said water, and no such water shall be drawn from the canal by any officer the State to be used outside or beyond the lands of the said State without the consent the said undersigned.

Fifth—The said company shall, by proper conveyance, grant to the said State privilege of maintenance in their present position, in so far as they do not require to removed to allow the proper construction of its canal, all guard towers and other but ings and improvements which are now standing or located on any of the lands or premi

of the said company.

Sixth—The said company will, by proper contracts, agree to maintain its present road from the town of Folsom to the said dam as now located, and give to the State free use thereof, but the said State shall, at its own cost, keep the same in repair.

Seventh—The said company shall furnish, at its own cost, all plans, surveys and speciations, and engineering details for the entire work, and in all respects the charge and quality of material and the method of construction shall be under the exclusion supervision of the engineer placed in charge of the work by the company; but non the employes of the said company shall, in any manner whatever, interfere with absolute management and control of the said laborers engaged in the work of constr ing the said dam and canal—it shall always be under the exclusive control of employés of the said State.

Eighth—The plans and specifications herein filed and herein referred to, may be after changed or modified from time to time, by and with the consent of the State, we shall be expressed by a resolution of the said Board of Directors of said State Prison.

duly entered on the records and by and with the written consent of the undersigned, but not otherwise.

(Signed:)

FOLSOM WATER POWER COMPANY. Per Horatio P. Livermore, Manager.

Then follows "Exhibit A," deed from the Natoma Water and Mining Company to the State of California, dated the thirtieth day of June, A. D. 1868, in consideration of fifteen thousand dollars (\$15,000), payable in convict labor, rated at 50 cents per diem for each convict, making a grant of three hundred and fifty acres of land (a portion of the Rancho Rio de los Americanos), fully described, etc., duly verified by the proper officers of said company.

Then follows "Exhibit B." deed from the Natoma Water and Mining Company to the State of California, dated the third day of June, A. D. 1874, in consideration of fifteen thousand dollars (\$15,000), payable in convict labor at the rate of 50 cents per diem for each convict, granting one hundred and thirty-three and ninety-two one hundredths acres, more or less, being a portion of the Rancho Rio de los Americanos, duly verified by the proper officers of the said Natoma Water and Mining Company.

Then follows "Exhibit C," contract and bond, dated the twenty-ninth day of June, 1873, between William Irwin, Governor of the State of California, James A. Johnson, Lieutenant-Governor of said State, and Thomas Beck, Secretary of said State, constituting the Board of Prison Directors of said State, party of the first part, and H. G. Livermore, of

the said State of California, party of the second part.

Said contract was made in pursuance of an Act of the Legislature entitled "An Act to provide for the completion of the Branch State Prison at Folsom," approved April 1, 1878, and provides that the said party of the second part, H. G. Livermore, shall, upon the completion of the said Branch Prison at Folsom, take from the State and employ three hundred and fifty convicts, daily, for a period of five years, for which the said party of the second part agrees to pay to the State a compensation of 50 cents per capita per diem; the said contract, made in pursuance of the said Act of the Legislature, was required by said Act to enter into the proper sureties before the money appropriated by said Act could be used for the completion of the said Branch Prison. The contract is duly signed by William Irwin, Governor, J. A. Johnson, Lieutenant-Governor, and Thomas Beck, Secretary of State, parties of the first part, and H. G. Livermore, party of the second part.

"Exhibit No. 3" consists of a map and plan of the proposed dam and canal, also showing the encroachments of the State upon the property of the Folsom Water Power Company, and extracts from the report of Ingineer H. T. Knight to the Folsom Water Power Company as to the encroachments made on the property of the company by the works of he State Prison at Folsom, according to the survey made March 8, 1887. Upon the reading of the foregoing proposition and exhibits, Director

crivner offered the following resolution:

Resolved, That the second proposition of the Folsom Water Power Company, dated by 5, 1888, be accepted, and that the Warden of the State Prison at Folsom be and he hereby directed and instructed to proceed with all reasonable diligence to furnish the dessary labor to construct to completion the dam and canal mentioned in said proposition of said company from its dam on said American River down to a point known as obbers' Ravine Mud Sink, on the line of said canal, pursuant to the contracts referred in said proposition, and in accordance with the plans and specifications of the said

H. T. Knight, as they may be enlarged and revised and filed with said proposition, or a they may hereafter, from time to time, be amended, with the consent of the respecting parties; provided, said Water Power Company shall, within ten days from date, executed the consensus of the respecting parties; provided, said Water Power Company shall, within ten days from date, executed the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the consensus of the in due form a contract also this day submitted.

On the question of the adoption of this resolution, the "ayes" and "noes" being called for by Director Luttrell, the "ayes" were Director Devlin, Sonntag, Scrivner, Luttrell, and De Pue; "noes," none. The resolution was then declared adopted. The Board then adjourned.

On the twelfth day of May following, and in pursuance of the propo sition submitted by the Folsom Water Power Company, and accepted by the State Board of Prison Directors, the following contract was exe cuted by the Folsom Water Power Company, and placed "in escrow" with S. G. Murphy, President of the First National Bank of San France cisco: Deed—The Folsom Water Power Company to the State of Cali fornia, May 12, 1888. Filed May 21, 1888:

WHEREAS, The undersigned has this day submitted to the Board of Directors of the State Prisons of the State of California a certain proposition with reference to the completion of the dam and canal of the undersigned, situate on the American River, adjacent to the lands of the State of California, at the State Prison at Folsom, which said proposition, the said undersigned promised and agreed to duly execute proper conveyance for certain rights, privileges, easements, immunities, and properties therein specified and referred to, reference to which said proposition now on file in the Clerk's office at the State Prison at Folsom, California, is hereby specifically made.

Now, therefore, for the purpose of fully carrying out said proposition on the part of the undersigned, and in consideration of the sum of one dollar, and of other good and value. able considerations, the receipt of which is hereby acknowledged, the undersigned, the Folsom Water Power Company, a corporation organized under the laws of the State of California (it being thereunto duly authorized by a resolution of its Board of Directors), does, by these presents, grant, assign, transfer, and convey unto the State of California and to its successors and assigns, all hereinafter described rights, privileges, easements

immunities, and properties, both real and personal, to wit:

First—The said State of California shall forever have the right to maintain the walls the main prison yard of the Folsom Prison, as it now stands, on the line of the prison yard, a portion of the same being upon the lands of said party of the first part, together with the right to repair, reconstruct or improve the same from time to time as the Board of Directors or the Warden of said prison may deem advisable. And the said party of the first part hereby grants unto the party of the second part all the land situate on the inside of said wall; also, so much of the retaining wall running southerly from the southwest corner of the prison yard as will not interfere with the proper construction of the proposed canal.

Second-Also the right to maintain on the lands of the party of the first part a guar post, known as the westerly guard post, situate on the banks of the American River opposite the gateway entering the main quarry of the prison, and on the outside of said canal; also the right to maintain such other guard stations on the lands of said party the first part as may be deemed necessary for the proper protection of said prison, privided the same shall not in any way interfere with the construction or maintenance. said canal.

Third—Also the right to maintain on the lands of the said party of the first part freight warehouse for the use of said prison, at a suitable point contiguous to the rai road track, which shall not, however, interfere with the construction or maintenance

Fourth—Also the right to lay and maintain sewers or sewer pipe beneath the bottom of said canal, leading from the prison to the American River, said sewer pipe to be

constructed as to in nowise impair the said canal.

Fifth—And the said party of the first part agrees to maintain its present railroad rule ame at all times at its pleasure, for all purposes and in any manner it may desire, for of cost, or any charge whatever, or without any cost to any one dealing with the State of cost, or any charge whatever, or without any cost to any one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with the State of cost and one dealing with so far as the State has any beneficial interest therein, the said State to keep the same repair at its own expense.

Sixth—Said State shall also have the right to construct and maintain across, along a over the lands of said party of the first part such pipes and aqueducts as it may desi for the purpose of carrying water from the said American River to the said lands of said State, and to any other buildings situate thereon; provided, the same shall be contracted and maintained as not to interferon with the said capal. structed and maintained as not to interfere with the said canal.

Seventh—The State shall have the right to take from the bed or banks of the America River all sand or gravel that may be required for use upon any of the said lands of said State, or in making any improvement, or in the construction of any buildings thereo

Eighth—The State shall have the right to remove from the rock quarries of the State, on the lands of the State, all dirt or refuse rock, and carry or transport the same over the lands of the party of the first part by such means as may be most expedient, and deposit or dump the same on the outside of the canal, on the banks of the river, but not in any rise in so doing to interfere with said canal.

Wist in so doing to interier with said canal.

Ninth—The State shall have the perpetual right of ingress and egress to and from said prison over the lands of said party of the first part, along and upon such roads as may be necessary therefor, which said roads shall also be open to the use of the party of the first part, but shall be constructed and maintained and kept in repair by the said State; but the same shall be constructed and maintained at such points as will not impair the safety of said canal, nor interfere with the flow of water of said canal, nor otherwise impair the beneficial use of the property of said party of the first part; and, where it is necessary to cross said canal, good and substantial bridges shall be constructed and maintained by the State, spanning the water without obstructing its flow.

Tenth—The said State shall also have the right to construct at first fall, upon and about

said canal and upon the lands and premises of the party of the first part adjacent thereto, if necessary, such waterwheels and structures for utilizing the power of said first fall as may be deemed necessary under the aforesaid plans of Engineer H. T. Knight, by said State, its officers, or agents, for the purpose of utilizing said water power in such manner and for such purposes as it or they may deem most expedient.

But all such utilization of the power of the first fall by the State shall be so devised and constructed account in terfore in only respect with the opward undiminished and

and constructed as not to interfere in any respect with the onward, undiminished, and unretarded flow of the water through the continuation of said canal after said first fall. Eleventh—The said party of the first part hereby grants to said State the exclusive and pernetual use of all power resulting from the first fall located opposite to or in the prison yard; such power to be used and appropriated by said State in any manner and for any purpose it may see fit connected with the State Prison, or other public works, or with any of the State lands or improvements at Folsom, together with the privilege of mising by pumps or other means from said canal at such first fall whatever water it may be deemed to be necessary for the use of said Folsom Prison by the Warden of said prison or other officer or officers in charge thereof; or whatever water such officer or officers may deem necessary or beneficial or useful in and about said prison, or any of the said prison buildings, or in or upon any of the lands of the State for irrigation or other purposes; such appropriations and use being in all cases so guarded by said Warden or other officer in charge of said prison as to prevent wastage, as far as possible, and such appropriation and use shall be reasonable, useful, and economical; but nothing herein contained shall be so construed as to permit such Warden, or other officers in charge of said prison, to make any unnecessary, useless, or wasteful use or appropriation of any such water; and no such water shall be drawn from said canal by any officer of the State to be conveyed or used outside or beyond the lands and improvements of said

State without the consent of the said party of the first part.

Twelfth—The said State shall always have the right to enlarge said dam and canal so as to increase the power of said first fall at its own cost and expense; provided always that such increased flow of water be allowed to pass on from said first fall as hereinbefore provided; and provided, that such enlargement shall in nowise impair the permanence, stability, and reliability of said dam and canal.

Any enlargement of said dam made, as hereinbefore provided by the State, for the

increase of its power at first fall, which shall by reason of overflow of back water, involve damage to land above said dam, or purchase thereof, shall be at the exclusive cost and

expense of said State.

It is further agreed by said party of the first part that it will proceed without unnecessary delay with the work of constructing the dam and canal, in accordance with the said maps, plans, and specifications of H. T. Knight, as enlarged or revised (so as to give the fall and water supply hereinbefore stated), filed with said propositions, and will prosecute the same with reasonable diligence until the same is completed. That it will, at all times, furnish the materials, tools, implements, and machinery necessary to be used and consumed in the construction thereof, and in sufficient quantities, and as apidly as may be required by the Warden of said State Prison to keep constantly employed to the best advantage such number of men as the said Warden may from time ployed, to the best advautage, such number of men as the said Warden may, from time time, designate and place upon such work in fulfillment of the State's contract to fur-

wish labor for the completion of said dam and canal of the party of the first part.

The neglect or failure of the party of the first part to faithfully keep all the executory provisions hereof shall render null and void all previous contracts and agreements on the part of the State with the assignors, or predecessors in interest, of said party of the first part, and referred to in said proposition; and said party of the first part shall also lose if rights hereunder; but the grants to the said State shall forever remain in full force and effect.

In witness whereof, and by virtue of authorization of a resolution thereto empowering ly passed by the Board of Directors of the Folsom Water Power Company, the said opporate seal of the company to be affixed hereunto on this twelfth day of May, A. D.

### THE FOLSOM WATER POWER COMPANY.

By CHARLES E. LIVERMORE, President. HOBATIO P. LIVERMORE, Secretary. On the same date, to wit: May 12, 1888, the following "agreement of deposit in escrow" was entered into between the Board of Directors and the Folsom Water Power Company:

REPORT OF STATE BOARD OF PRISON DIRECTORS.

Whereas, The Folsom Water Power Company has, on this the twelfth (12th) day of May, A. D. 1888, made a certain conveyance to the State of California of various rights, privileges, easements, immunities, and properties connected with the State Prison at Folsom; and, whereas, the condition of said convevance is (in accordance with proposals submitted to the honorable Board of State Prison Directors by the Folsom Water Power Company at Folsom Prison, on the fifth day of May, 1888, as more fully appears from the records of said Folsom Prison), that the Warden of said Folsom Prison shall furnish all the labor required to complete the construction of said company's dam; also, to complete the said company's canal down to the point designated in the surveys and plans of said canal as "Robbers' Ravine Mud Sink."

Now, therefore, it is hereby understood and agreed that the hereinbefore mentioned conveyance of the Folsom Water Power Company shall be placed in escrow in the hands of S. G. Murphy, President of the First National Bank of San Francisco, or his successor, to be by him held until the hereinbefore specified labor shall have been fully residered and performed, thereby discharging the consideration due to the said company for such conveyance, then to be delivered to the Chairman of the Board of State Prison Directors

(Signed by the President and Secretary of the Folsom Water Power Company and State Board of Prison Directors.)

Said contract or deed was deposited with S. G. Murphy upon the day mentioned, to be delivered to the State upon the completion of the said work.

The report of the Deputy Warden shows that two hundred and twelve convicts have been discharged, and three hundred and twenty-eight received during the year—an increase of one hundred and sixteen. As the San Quentin Prison held its own during the year, this number, one hundred and sixteen, represents the increase of the convict population of the State during that period. If this rate continues, it will not take long for the two State Prisons to be overcrowded with prisoners. However, the completion of the Preston School of Industry, at Ione, and the Whittier Reform School, will relieve the prisons of many youthful criminals, who should never have been sent to a State Prison to mingle indiscriminately with the older and more hardened.

As the limit of our cell and dining-room capacity has been reached. I would recommend that the ensuing Legislature make provisions for building cells in the east wing of the prison building, now unoccupied and also for building additional dining-room and kitchen facilities.

The new wing will accommodate with cell-room four hundred convicts, which, added to the number now on hand, would make over one thousand prisoners. All of the best penological authorities agree the one thousand is the maximum that should be congregated in one prison. There are many reasons for this: the principal one is, that when you get above that number, it precludes the possibility of the Warden and officers knowing personally each convict, which is essential to any intelligent effort at discipline or reformation. The Warden must personally know the peculiar mental and physical characteristics of prisoner, else he cannot exercise proper disciplinary or reformator, influences over him; and, except for the matter of economy, a must less number than one thousand would be preferable.

For kitchen and dining-room, economy dictates more spacious accommodations than we now have.

The percentage of waste (the key to extravagance in all large institutions) is much less where you have an abundance of room to preparand properly handle the food. That you cannot do if the kitchen

cramped, and the range limited. The result is, badly cooked food that is not eaten, and goes to waste.

### PHYSICIAN'S REPORT.

The report of Dr. T. B. Eagle will be found interesting and instructive. But three deaths occurred during the year, with an average of six hundred and twenty-three prisoners, which is a percentage of 4.81 in a thousand. A comparative statement of other prisons in the United States, taken from the various reports at hand, for the last two years, shows that the Folsom Prison is down to the minimum in point of mortality. This has been repeatedly shown by the reports of the last three years, and I trust that such expressions as "sending a convict to the Folsom Prison to die," may not be heard again in this State.

To the close attention given the sick by the physician, I attribute the

surprisingly low rate of mortality.

In conclusion, I desire to thank your honorable Board for the many courtesies extended during the year.

The officers and guards have been unremitting in their devotion to the interests of the prison.

Their valuable assistance has materially lightened my labors, and assisted in maintaining good order among the prisoners.

Respectfully submitted.

CHARLES AULL, Warden Folsom State Prison.

# DEPUTY WARDEN'S REPORT.

STATE PRISON AT FOLSOM, CALIFORNIA, July 1, 1890.

Hon. CHARLES AULL, Warden State Prison at Folsom:

DEAR SIR: I herewith beg to submit my report, in tabular form, for the fiscal year ending June 30, 1890.

Very respectfully,

W. H. ROBINSON, Deputy Warden.

TABLE No. 1.

Prison Account from 1881 to June 30, 1890.

	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	Total
Prisoners received by order of Court Pardons revoked	96	85	131 1	217	230	225	150	152	241	265	1,792
Escapes recaptured Returned from Insane Asylum United States prisoners re-	2	5		3	1	3	3	3 1	3 1	2 1	25 8
Returned by order of Court	· <b>-</b>		<u>2</u> -	<u>-</u> 2-	1 2	<u>i</u> -	1	1	1	2 1	6 8
Received by transfer from San Quentin Returned convict witness	253 2	60 1	9	50 4	2 6	4 2	1 4	7 2	11 5	51 6	439 41
Total received	353	151	143	276	242	235	159	166	262	328	2,315
Discharged per Act and re-	36	114	93	75	48	42	69	80	23	42	622
stored. Pardoned by Governor. Discharged by commutation. Discharged by order of Court.	1	3 1 2	11 8	11 3	32 11 22	71 1 16	80 8 13	88 4 1	83 9 1	93 1 2 1	447 60 67
Died and killed  Killed while attempting to	6	6	4 13	6 7	4 7	2 7	2 15	2 7	3 6	3	36 74
escape Sent to Insane Asylum Taken out as a witness Taken out for a new trial Suicided	1 2 1 1	1 2 4	9 1	2 4 2 1	1 6 5 1	2 2 4 2	4 2 1	7 2	3 5 1	1 3 6 4	20 42 24 6
Taken out for trial on a new charge Taken out on writ of probable				2	1				•	1	4
Taken out on writ of habeas				1	2	<b></b> -	<b></b>				8
Taken out for trial on additional charge	1		2	3	1			1		1	1
Taken out on certificate of probable cause  Taken out by order of Court.	3			<b> </b>				1		1	2
Conditionally pardoned Transferred to San Quentin Killed by fellow convict	1	1	1	1	3 3	3	4	157		50	217 1
Total discharged	56	139	144	118	147	152	198	350	134	212	1,650

TABLE No. 2.

Recapitulation of Received and Discharged Prisoners, from July 1, 1889, to June 30, 1890.

1000 Promise J			, ,		,,			
Монтн.	By Commitment	United States Prisoners Received	Escape Returned.	Remanded by Order of Court	Transferred from San Quentin	Witness Returned.	Returned from Insane Asylum	Total Received
1889—July	19 39 19 34 31 15 22 17 26 19 15	1	1	1	50	1 2 2 1	1	19 40 20 37 33 16 23 17 77 19 17
Totals	265	2	2	1	51	6	1	328
Month.	Discharged per Act and Restored	Discharged per Act	Pardoned by Gov-	Commuted by Gov- ernor	Escaped	Taken out for a New Trial	Taken out for Trial on a New Charge	Taken out on Certificate of Probable Cause
1889—July August September October November December 1890—January February March April May June	9 4 7 14 8 14 8 8 3 5 9 4	2 5 4 4 3 2 1 9 3 5 3 1	1	1	1 1	1 1	1	1
Totals	93	42	1	2	3	4	1	1

### TABLE No. 2—Continued.

Month.	Taken out as a Witness	Taken out on a Writ of Habeas Corpus	Discharged by Supreme Court	Transferred to Insane Asylum	Died in Hospital	Killed while Attempting to Escape	Transferred to San Quentin	Total Discharged.
1889—July August September October November December 1890—January February March April May June	1 3 1 1	1	1	3	1	1	50	183 10, 17, 21, 20, 12, 18, 58, 11, 13,
Totals	6	1	1	3	3	1	50	212

### TABLE No. 2-Continued.

Number of Prisoners on Hand on the last day of each month for Fiscal Year ending on the thirtieth day of June, 1890.

Month.	Number.
1889—July	555
AugustSeptember	588 588
October November	625
December 1890—January	632
February March	600
April May	658 662
June	
Daily average first half fiscal year.  Daily average second half fiscal year.  Daily average for fiscal year.	649.7 623.0
Daily average for uscal year	0,2017

### TABLE No. 3.

### Nativity of Prisoners.

NATIVITY.	NATIVITY. No. Per Cent. NATIVITY.		NATIVITY,	No.	Per Cent.	
United States.			Foreign.			
California	145	21.80	Austria	6	.90	
Colorado	3	.45	Australia	4	.60	
Connecticut	5	.75	Bavaria	1	,15	
Dakota	1	.15	British Columbia	1	.15	
District of Columbia	1	.15	Canada	11	1,66	
Florida	1	.15	Central America	1 1	.15	
Georgia	2	.30	Chili	1	.15	
Illinois	26	3.93	China	33	4.97	
Indiana	-ĕ	.90	Cuba	i	.15	
Indian Territory	ĭ	.15	Denmark	1	.15	
Iowa	6	.90	England	23	3.46	
Kentucky	1Ŏ	1.50	France	10	1.50	
Louisiana	ž	.45	Germany	36	5.42	
Maine	8	1.20	Greece.	ĭ	.15	
Maryland	7	1.05	Holland	ī	.15	
Massachusetts	17	2.56	Ireland	41	6.17	
Michigan	10	1.50	Italy	4	.60	
Michigan Minnesota	2	.30	Tanan	3	.45	
Mississinni	ī	.15	Japan Lower California	1	.15	
Mississippi Missouri	25	3.77	Malta	ī	.15	
Nebraska	1	.15	Mexico	14	2.11	
Nevada	2	.30	New Zealand	2	.30	
New Jersey	5	.75	Nova Scotia	1	.15	
New York	64	9.62	Poland	i	.15	
North Carolina	1	.15	Portugal	i	.15	
	16	2.41	Portugal	3	.45	
Ohio		.45	Russia Scotland	5	.40	
Oregon	3 29	4.37	Scotland	2	.30	
Pennsylvania			South America	10	1.50	
Rhode Island	2	.30	Sweden and Norway			
South Carolina	1	.15	Switzerland	1 1	.15	
Tennessee	5	.75	Tahiti	1	.15	
Texas	4	.60	Turkey	1	.15	
Vermont	7	1.05	West Indies	3	.45	
Virginia	8	1.20	1			
Washington	1	.15	ll l			
West Virginia	2	.30	Ŋ <u></u> ,,			
Wisconsin	8	1.20	Totals	665	100.00	

### RECAPITULATION.

Native born		439	$\mathbf{or}$	66.01 per cent.
Foreign born		226	$\mathbf{or}$	33.99 per cent.
••	•			<del></del>
Totale		665	Or	100 00 per cent

### TABLE No. 3-Continued.

### Nativity of Fathers of Prisoners.

# TABLE No. 3—Continued. Nativity of Mothers of Prisoners.

	Nativity	j oj Fati	ters of Prisoners.		-4	Nativity of Mothers of Prisoners.					•
NATIVITY.	No.	Per Cent.	NATIVITY.	No.	Per Cent	NATIVITY.	No.	Per Cent.	NATIVITY.	No.	Per Cent.
United States.			Foreign.			United States.			Foreign.		
Alabama	1	.15	Africa	1	- 1	Alabama	1	.15	Africa	1	.15
Arizona	1	.15	Austria	4	,· <b>9</b>	Arkansas	1	.15	Argentine Republic	Ī	.15
Arkansas	2	.30	Australia	3		alifornia	45	6.78	Austria	5	.75
California	31	4.67	Azores Islands	1		Connecticut	7	1.05	Australia	2	.30
Colorado	1	.15	Belgium	1		District of Columbia	2	.30	Belgium	6	.15
Connecticut	4	.60	Canada	7	1.3	Florida	1	.15	Canada	1	.90 .15
District of Columbia	1	.15	Central America	1		eorgia	3 8	.45	Chil	$\frac{1}{2}$	.30
Florida	1	.15	Chili	2	1 2	minois.	Ö	1.20	Chili	33	
Georgia	3	.45	China	33	4.9	ndiana ndian Territory	2 1	.30	China	55 1	4.97 .15
Illinois	, b	.90	Denmark	$^2_1$	'-	Andrea Territory	Ī	.15 .15	Cuba Denmark	3	.15
Indiana	1	.15 .15	East Indies	42	, ·	Iowa Kentucky	19	2.86	England	35	5.26
Indian Territory	1		England	18	0.0	Louisiana	19	.15	France	20	3.01
Iowa	1	.15	France	55	8.3	Maine	5	.75	Germany	50	7.52
Kansas	1 01	.15	Germany	35 1	0.00	Maryland	4	.60	Greece	1	.15
Kentucky	21 3	3.16	Greece	i	1	Massachusetts	24	3.61	Ireland	136	20.45
Louisiana		.45	Holland	127	19.	Michigan	24	.30	Italy	5	.75
Maine		1.20 .60	Ireland	6	19.4	Mississippi.	$\overset{2}{2}$	30	Jamaica	ĭ	.15
Maryland	4		Italy Jamaica	1		Missouri	8	1.20	Japan	3	.45
	18 3	2.71	Jamaica	3	'3	New Hampshire	î	.15	Malta	í	.15
Michigan Minnesota	1	.45 .15	Malta	3 1	· 湯	New Jersey	2	.30	Mexico	$2\overline{2}$	3.31
Mississippi	2	.30	Mexico	24	2	New York	49	7.37	New Brunswick.	ĩ	.15
Missouri	าร์	1.66	New Brunswick	2		North Carolina	4	.60	Portugal	$\overline{2}$	.30
Montana	1	.15	Nova Scotia	ĩ	. 1	Ôhio	18	2.71	Russia	3	.45
Nebraska	1	.15	Portugal	3		Pennsylvania	23	3.46	Scotland	17	2,56
Nevada	ī	.15	Russia	5		Rhode Island	$\tilde{\mathbf{z}}$	.30	Siberia	i	.15
New Hampshire	$\begin{array}{c} 1 \\ 2 \\ 1 \end{array}$	.30	Scotland	11	1.00	South Carolina	2 2	.30	South America	ī	.15
New Jersey	ĩ	.15	South America	i		Tennessee	9	1.35	Spain	<u>-</u> 6	.90
New York	59	8.87	Spain	4		Texas	. 1	.15	Sweden and Norway	11	1.66
North Carolina	4	.60	Sweden and Norway		1.3	Vermont	$\mathbf{v}_{2}^{1}$	.30	Switzerland	2	.30
Ohio	16	2.41	Switzerland	12 2		Wirginia.	25	3.77	Turkey	1	.15
Oregon	ĭ	,15	Turkey	ī		Washington Territory	1	.15	Wales	3	.45
Pennsylvania	26	3.91	Wales	3	3	West Virginia	1	.15	West Indies	1	.15
Rhode Island	1	.15	West Indies	ĭ	160	Unknown	. 7	1.05	Unknown	2	.30
South Carolina	ī	.15	Unknown	$ar{2}$	.30	ā					<u> </u>
Tennessee	8	1.20	0.11110	_	, 1			1 -	Totals	665	100.00
Texas	ĭ	.15						<b>i</b> [			1
Utah		.15	,		1			·			·
Vermont	1 3	.45				I .		RECAPIT			
Virginia	26	3.91	j					LEUAPIT	ULATION.		
West Virginia	ĭ	.15	1		1	Native born			284 or	r 42.71 ı	per cent.
Wisconsin	1 1	.15			i	Foreign horn			381 or	57.29	per cent
Unknown	ī	.15	Totals	665	100.0	20101811 DOILLEAGUE					P 001101
	_			_		Totals			665 oı	100.00	per cent
·			·								OO2101

### RECAPITULATION.

Native born.	282	or 42.40	per cer
Foreign born	383 (	or 57.60	per cer
		100.00	

Totals \_\_\_\_\_\_665 or 100,00 per cent

## TABLE No. 4.

### Classification of Crime.

## TABLE No. 5.

## Terms of Imprisonment.

	l .		7	·		T	
CRIME.	No.	Crime.	No.	Term.	No.	TERM.	No.
Accessory to burglary	1	Counterfeiting		Life	61	Seventeen years	3
Arson	1	Crime against nature	1	One quarter year	î	Eighteen years	1 4
Arson, 1st degree	2	Desertion and theft		One year	15	Twenty years	16
Arson, 2d degree	4	Embezzlement		One year and \$100 fine	10	Twenty-one years	10
Arson, 2d degree (2 commitments).	ī	Embracery	1	One and one quarter years	1	Twenty-two years	1 1
Arson, 2d deg., and attempted arson	ī	Felony	1	One and one half years	17	Twenty-five years	1 4
Assault to murder	9	Feloniously taking from United States mail a letter	4	Two years	67	Twenty-eight years	1
Assault to murder and prior		States mail a letter	1	Two and one quarter years	94	Twenty-eight years	1 6
Assault to commit crime against	_	Forgery		Two and one quarter years	8	Twenty-nine years	. 5
nature	9	Forgery and burglary (2 commit's).		The second	74	Thirty years	1 1
Assault with deadly weapon	18	Grand larceny	\$	Three years	74	Thirty-two years	-
Assault with deadly weapon and		Grand larceny (2 commitments)	9	Three years and \$500 fine		Thirty-five years	P
assault to rob	1	Grand largery and prior	4	Three years and \$1,000 fine		Forty years	
Assault with intent to rape		Grand larceny and prior	1	Three and one quarter years	<u> </u>	Forty-two years	-
	9	commitments)		Three and one half years		Fifty years	- 5
Assault with intent to rob.		Grand larceny and burglary, 1st	1	Four years	54	Fifty-five years	-] -
Assault with intent to rob and prior	1	Grand larceny and burgiary, 1st	9	Five years	76	Sixty years	-
Attempt to commit burglary	8	degree (4 commitments)	1 3	Six years	24	Seventy-three years	- L
Attempt to commit burglary and		Grand larceny and escaping from	1 3	Six and one half years	1		
prior	1	State Prison		Seven years	24	Total	. 665
Attempt to commit crime against		State Prison Grand larceny and injuring a pub-	- 4	Eight years	29	la	
nature	2	lic Jail	1 3	Nine years	9	Serving first term	_ 508
Attempt to commit grand larceny	3	lic jail	1 1	Nine and eleven twelfths years	1	Serving second term	_ 114
Attempt to commit robbery	<u>]</u>	mitments)	1 4	Ten years	87	Serving third term	_ 26
Bigamy		Having possession of counterfeit	1 3	Ten years and \$1,000 fine	1	Serving fourth term	. 9
Burglary		coin	1	Eleven years	. 2	Serving fifth term	4
Burglary and prior		Infamous crime against nature	]	Twelve years	17	Serving sixth term	2
Burglary and larceny	1	Injuring a public jail	9	Thirteen years	3 .	Serving seventh term	1
Burglary and grand larceny		Making and passing a fictitious	13	Fourteen years	17	Serving ninth term	1
Burglary and assault to murder	1	check	4	Fifteen years	- 19		
Burglary and injuring a public jail.	1	Manslaughter	22,	Sixteen years	3	Total	665
Burglary, 1st degree	98	Murder	1 7	<b>a</b> r ,			ł
Burglary, 1st degree, and priors	9	Murder, 1st degree	46				
Burglary, 1st degree (3 commit's)	1	Murder, 2d degree	30	T.D.	n No. 5	—Continued.	
Burglary, 1st degree, and assault to	İ	Perjury Petit larceny and prior	1	, IABI	E NO. 5	-Continued.	
murder	1	Petit larceny and prior	6	Education	nal Abil	ities of Prisoners.	
Burglary, 1st degree, and grand lar-	Ì	Rape	6	120 00000	1000 2100	could by 1 1 to the 18.	
ceny (4 commitments)	1	Receiving stolen property	1				1
Burglary, 2d degree	102	Robbery	71				No.
Burglary, 2d degree (2 commit's)	2	Robbery and prior	1 2				
Burglary, 2d degree, and priors	1 4	Robbery and assault to murder	1 1				1
Burglary, 2d deg., and assault to rob	ìi	Robbing United States mail and		Read and write			554
Burglary, 2d deg., and grand larceny	i	assaulting carrier		Read and cannot write			22
Buying stolen property	i	Subornation of perjury	] ]	Neither read nor write			· 89
Conduct prejudicial to good he-		Sabarasan or Porjary	<u></u>	<b>3</b> ."			
Conduct prejudicial to good be- havior and military discipline	1	Total	665	■ Total	<b></b>		665
marter and minutely discipline			I .	畫 N ·		•	l .

### TABLE No. 6.

### Ages of Prisoners.

AGE.	No.	AGE.	No.
Sixteen years	5	Forty-four years Forty-five years	
Seventeen years	5	Forty-five years	
Eighteen years	13	Forty-six years	
Nineteen years	21	Forty-seven years	
Twenty years		Forty-eight years	
Twenty-one years	31	Forty-nine years	
Twenty-two years	28	Fifty years	
Twenty-three years	27	Fifty-one years	
Twenty-four years	20	Fifty-two years	
Twenty-five years		Fifty-three years	
Twenty-six years	31	Fifty-four years	
Twenty-seven years		Fifty-six years	
Twenty-eight years		Fifty-seven years	
Twenty-nine years	29	Fifty-eight years	
Thirty years		Fifty-nine years	
Thirty-one years	24	Sixty years	
Thirty-two years		Sixty-one years	
Thirty-three years		Sixty-two years	
Thirty-four years	$\overline{25}$	Sixty-three years	
Thirty-five years	18	Sixty-four years	
Thirty-six years	15	Sixty-five years	
Thirty-seven years		Sixty-six years	
Thirty-eight years	12	Sixty-seven years	
Thirty-nine years	22	Sixty-eight years	
Forty years	17	Seventy-nine years	
Forty-one years	īi		<u> </u>
Forty-two years		Total	(
Forty-three years	15		

### RECAPITULATION.

Twenty years and under Twenty-one years to thirty years Thirty-one years to forty years Forty-one years to fifty years Fifty-one years to sixty years	286 188 80 26	or or or	43.00 28.27 12.03 3.91	per per per per	cent cent cent
Sixty-one years to seventy-nine years	15	or	2.26	per	cent
Totals	_ 665	or	100.00	per	cent

### TABLE No. 7.

### Number of Prisoners from Each County.

COUNTY.	No.	Per Cent.	COUNTY.	No.	Per Cent.
Alameda	42	6.32	San Joaquin	27	4.00
Alpine	1	.15	San Luis Obispo	7	1.08
Amador	3	.45	San Mateo	6	.90
Butte	11	1.66	Santa Barbara	8	1.20
Calaveras	1	.15	Santa Clara	14	2.11
Colusa	10	1.51	Santa Cruz	5	.75
Contra Costa	2	'.30	Shasta	2	.30
Del Norte	1 )	.15	Sierra	3	.45
El Dorado	8	1.20	Siskiyou	8	1.20
Fresno	23	3.46	Solano	7	1.05
Humboldt	2	.30	Sonoma	12	1.81
Kern	6	.90	Stanislaus	8	1.20
Lake	3	.45	Sutter	2	.30
Los Angeles	39	5.87	Tehama	8	1,20
Marin	2	.30	Trinity	3	.45
Mariposa	3	.45	Tulare	1	.15
Mendocino	8 [	1.20	Tuolumne	3	.45
Merced	3	.45	Ventura	6	.90
Modoc	3	.45	Yolo	11	1.66
Mono	1	.15	Yuba.	20	3.01
Monterey	3	.45	United States Courts:		
Napa	3	.45	Northern District of Cal-	1	
Nevada	11 /	1.66	ifornia	4	.60
Orange	1	.15	Southern District of Cal-	1	
Placer	3	.45	ifornia	1	.15
Sacramento	70	10.53	Military Department of		
an Benito	2	.30	Arizona	1	.15
San Bernardino	15	2.26	Alcatraz Island	1	.15
an Diego	5	.75	_		
San Francisco	212	31,88	Totals	665	100.00

# TABLE No. 8. Occupation of Prisoners when Received.

OCCUPATION.	No.	OCCUPATION.	N
Accountant	1	Nailmaker	
Acrobat	1	Packer	İ
Baker	6	Painter and paperhanger	
Barber	11	Pastry cook	ļ
Barkeeper	4	Peddler	
Blacksmith	12	Physician	
Boatman	2	Pipemaker	1
Bookkeeper	3	Plasterer	ł
Boilermaker	6	Plumber	ł
Boxmaker	ĺ	Porter	
Brakeman	5	Preacher	
Brewer	ĭ	Printer	ł
Bricklayer	2	Railroad man	
Brickmaker	<u>2</u>	Saddler	
Butcher	11	Sailor	1
Buttonmaker	1	Sailmaker	i
Carpenter	17	Salesman	
Cabinetmaker	-6	Saloonkeeper	
Cigarmaker	ĭ	Sawyer	
Clerk	11	Ship carpenter	
Cook	27	Ship caulker	
	:		1
Cooper	1 1	Ship rigger	
Dairyman	2	Shipwright	Ì
Dentist	2	Shoemaker	
Druggist	1	Signwriter	
Engineer, civil		Silver plater	ł
Engineer, locomotive.	4	Smelter	
Engineer, stationary	6	Soda manufacturer	
Farmer	7	Soldier	}
Farm laborer	39	Stableman	}
Fireman	1 7	Stage driver	l
Fisherman	3	Stevedore	
Fresco painter	1	Stockraiser	
Glassblower	1	Stonecutter	
Goldbeater	1	Stonemason	
Gunsmith	1	Storekeeper	
Hackman	1	Sugar boiler	
Harnessmaker	5	Surgical dresser	
Horseshoer	2	Tailor	
Hostler	12	Tanner	
Hotelkeeper	1 (	Teamster	
Hotel steward	2	Tinner	
Interpreter	1	Tin roofer	
Ironmolder	4	Trader	
Iron worker	2	Turner	
Jeweler	1	Vaquero	
Journalist	2	Valet	
Laborer	186	Varnisher	
Laundryman	9	Waiter	
Lithographer	1	Wire worker	
Locksmith	1	Wood chopper	
Lumberman	$\bar{2}$	Woodmolder	
Machinist	7	Wool sorter	
Marble polisher	i	No occupation	
Millwright	ī		
Miner	$2\overline{1}$	Total	
Musician	ī		
	_		

### TABLE No. 9.

Showing the number of Convicts assigned to the various Departments, etc., of the Prison at the close of the Fiscal Year, ending June 30, 1890.

DEPARTMENT.	No.	DEPARTMENT.	No.
Ranch General repairs Permanent improvements Laundry General kitchen Bakery State power house Officers' dining-room House servants Chicken ranch Whitewashers Cell tenders Gate tenders Library Commissary Gas house General laborer Dairy Lamp-room Hospital nurses Sawmill Scavengers Vegetable garden Flower garden	10 3 2 13 35 4 199 8 10 1 5 11 3 1 7 1 1 2 2 6 3 5	Stable	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.

TABLE No. 10.

Employment and Labor Report for the Fiscal Year, ending June 20, 1890.

• -			
NATURE OF LABOR.	Days Labor.	NATURE OF LABOR.	Days Labor.
Canal Quarry department Ranch General repairs Permanent improvements Laundry department General kitchen Bakery Engineers Officers' dining-room House servants Chicken ranch Whitewashers Cell tenders Gate tenders Library	98,582 1,512 2,585 757 771 4,067 11,613 1,442 1,048 2,854 3,271 365 1,338 3,637 1,287 361	NATURE OF LABOR.  Harness shop. Carpenter shop. Tin shop. Barber shop Plumber shop Paint shop Shoe shop Tailor shop Photographer Captain of Guards' office Deputy Warden's office. Clerk's office. Warden's office Sweepers State power house Livermore contract	332 1,501 656 723 408 704 1,818 2,384 362 372
Commissary Gas house General laborers Dairy Lamp-room Hospital nurses Bawmill Beavengers Vegetable garden	366 374 391 793 538 1,427 1,853	Lost Labor.  Patients in hospital Daily excuses Cripples, imbeciles, etc Unassigned	591
Nower garden Stable Road gang	3,750 2,604	Total	7,912

TABLE No. 11.
othing Account, July 1, 1889, to June 30, 1890.

, and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and	3	LOTHIN	S, SHOE	S, ETC.,	MANUF	CLOTHING, SHOES, ETC., MANUPACTURED	
Мокти.	Pants	Wool Shirts	Hickory Shirts	Drawers	Shoes Undershirts	Boots	Shoes Repaired.
1889—July August Shugust September October November December 1890—January Rebruary March April May June	245 1132 1132 1132 1133 1133 1133 1133 113	201 100 1100 1100 1100 1100 1100 1100 1	23888 <b>22988</b>	22.25 2.25 2.72 2.72 2.73 2.73 2.73 2.73 2.73 2.73	29 1412 288 288 288 288 28 1211 4 18 18 18 18 18 18 18 18 18 18 18 18 18	25.25.25.25.25.25.25.25.25.25.25.25.25.2	88 87 87 87 87 87 87 87 87 87 87 87
Totals	1,846	1,573	351 1,	1,718 1,6	1,681 1,273	38	

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		REPORT	OF	ST	ATE	В	OAF	RD	OF	PRIS
	thes.	Pants	Ħ	15.9	<b>#</b> #	4=	1 EZ a	9	12	130
	Citizens' Clothes	Vests	07	y 4.	<b>₽</b> ∓	11	121	-01	<b>∞</b> ~	133
	Citize	Coats	10	. <del>1</del> 1	21	11	17	10	<b>∞</b> ⊣	133
	Oil C	oats				67		1 1		2
	Buck	Gloves		1	ကတ	3.0	15.	16	<b>20 20</b>	106
	Rubb	er Boots	1	က	8		12	1 1	1 1	18
ED.	Overa	ıls			1 1	-			1 1	1
CLOTHING, SHOES, ETC., ISSUED.	Shoes	Repaired.	99	38	28	<b>26</b> 26	88	171	174 217	1,248
ES, ETC	Boots		4	-	410	<u> </u>	40	۱,	æ	36
э, Яно	Draw	e <b>rs</b>	18	18;	<u>r</u> 8	387	85	8	<b>4</b> 53	1,615
OTHIN	Under	rshirts	87	#8j	2.4 5.8	ន្តន	35 E	47	41 5	1,597
5	Wool	Hats	114	113	⊒ <b>%</b>	ಹ≈	86 7	101	4 76	1,194
	Straw	Hats	13	2	\$	1 1	;		85	149
	Shoes		117	311	1. 1.06	12 12 12 13	14.1	132	82	1,448
	Socks	) 	25.52	3.8	£8	24	882	200	8,25	2,688
	Hicko	ry Shirts	47	388	4	13	15	27	19	281
	Wools	Shirts	109	115	14. 14.	127 93	51 54	110	388	1,567
	Pants.		182	621	133	₹ ₩	- 15 15 15	166	140 86	1,869
	Монти.		1889—July	September	November	December 1890—January	February March	April	May	Totals

# CLERK'S REPORT.

STATE PRISON AT FOLSOM, CAL., July 1, 1890.

To the honorable State Board of Prison Directors:

GENTLEMEN: I herewith submit for your consideration a full statement of the financial transactions of this prison for the forty-first fiscal year, ending June 30, 1890.

Very respectfully,

W. W. CUNNINGHAM, Clerk.

\$145,650

11

\$547

83

8

8

88

8

\$328

25

\$99,163

B

\$19,537

\$2,664 17

Totals.

1,969 \$20,699

18

270

1888888888888888888888

Total.....

TABLE No. 1.

11 00 \$210 87 8 Folsom Water 325 Power Co.... 58888858858 **\$**34248258431100 Miscellaneous . \$182 00 8 18 United States Government ... 225 <u>1</u>28 1 50 88 Sales, Hospital Department... :82,− 88888888888 Rentals, Wood-en Buildings... the Forty-first 88 88888 2 615 215 215 100 197 6,806 9,151 Power House Appropriation. during 8884886188888 General Appro-priation 41st Fiscal Year at Folsom 8 General Appro-priation 40th Fiscal Year.... \$19,537 State \$200 00 483 12 1,255 00 8 728 Sales of Granite. Cash Receipts MONTH.

TABLE No.

	Total	\$20,564 35 9,906 53 9,906 53 3,415 68 10,561 82 10,578 29 11,678 88 13,384 88 31,786 21 3,542 86	\$143,063 62 2,617 27 \$145,650 89
	Power House Accounts	\$580 00 640 00 615 00 215 00 15,957 54	\$18,432 54
e 30, 1890.	Prison Direct- ors	\$348 00 438 40	\$786 40
uding Jun	Transportation Prisoners, In- sane, etc.	\$55 10 28 60 188 70	\$270 40
d Year, en	Escaped Prisoners	\$19.25 50.00 59.40	<b>\$</b> 128 66
first Fisco	Expenses	\$100 00 6 50	\$106 50
the Forty	Discharged Prisoners	\$88 83 171 14 4 6 6 6 8 17 17 17 17 17 17 17 17 17 17 17 17 17	\$1,407 15
Disbursements of the State Prison at Folsom during the Forty-first Fiscal Year, ending June 30, 1890	Salaries—41st Fiscal Year	\$5.00 mm	\$37,021 32
rison at F	Salaries—40th Fiscal Year	\$3,319 15	\$3,319 15
of the State I	Merchandise— 41st Fiscal Year	\$5,786 31 5,911 47 5,616 22 6,808 59 6,808 54 12,565 36	\$64,009 51
isbursements	Merchandise— 40th Fiscal Year	<b>\$16,218</b> 35	\$16,218 36
Cash D	State Treasurer — Prison Earnings	\$1,333 65	\$1,333 65
	Момтн.	1889—July  August September October November December 1890—January Rebruary March April May June	Totals \$1,333 Balance on hand June \$0, 1890 Grand total

TABLE No. 3.

Exhibit of Cost of Maintaining Prisoners at State Prison at Folsom for the Forty-first Fiscal Year, ending June 30, 1890.

	100, 000	ing ounce,	1000.			_
ACCOUNTS.	Inventory, July 1, 1889.	Issues During Year.	Total.	Inventory, July 1, 1890.	Balance	
Salary		\$40,577 94	\$40,577 94		\$40,577	94
Expense		2,826 71	2.826 71		2,826	71
Hospital Department	<b>\$916 90</b>	2,002 60	2,919 50	\$1,141 86	1777	64
Discharged prisoners		1,398 65	1,398 65		1,398	65
Discharged prisoners Warden's house	35 12	1,282 90	1,318 02	59 23 804 77	1,258	
Officers and guards' mess	545 96	8.163 15	8,709 11	804 77	7,904	34
Prisoners' mess	 				25,291	88
Officers and guards' mess Prisoners' mess Commissary Department					215	55
Capt. of Guards' Department			<b></b>		474	19
Capt. of Guards' Department Turnkey's Department Engineer's Department Laundry Department					13,575	42
Engineer's Department					3,489	23
Laundry Department					840	00
Stock Department					3,608	
Stock Department Warden's office					98	
Clerk's office					87	
Permanent furniture					79	
General repairs					553	
Light Department					2,575	
Profit and loss (Commissary)					776	
Profit and loss (Commissary) Escaped prisoners					128	
Insula prisoners (transpor-					120	•
tation)					37	M
Insane prisoners (transportation)  Transportation prisoners					245	
Transportation prisoners					240	
Total					\$107,821	<u>م</u>
10041					φ101,02 <u>1</u>	w
	l	L		L		
Receipts from farm					3,567	M
Trecerbes from farm					0,001	<del>-</del>
Net expense of maintenance	ce		- <b></b>		\$104,254	41
					,	

Average number of prisoners, 623; cost per capita per diem, 45.8 cents.

TABLE No. 4.

Earnings of the State Prison at Folsom for the Forty-first Fiscal Year, ending June 30, 1890.

	QUA	RRY.	FA	RM.	LA	BOR.	Earnings Forty-first
	Dr.	Cr.	Dr.	Cr.	Dr.	Cr.	Fiscal Year.
Receipts during forty-first fiscal year		\$2,565 82 7,561 01		\$4,436 01 3,416 44		\$210 00	
Issued during for- ty-first fiscal year Stock on hand, in- ventory July 1,			\$2,131 26	0,110 12			
1889Earnings forty-first fiscal year	7,348 92 1,916 98		2,153 70 3,567 49		\$210 <b>0</b> 0		\$5,694 47
Totals Net earnings forty- first fiscal year	\$f0,126 83	\$10,126 83	\$7,852 45	\$7,852 45	\$210 00	\$210 00	\$5,694 47 \$5,694 47

### TABLE No. 5.

### Assets and Liabilities.

Assets.		
Cash on hand	\$2,617 27	1
Officers and Guards' mess Hospital Department Commissary Department	804 77	1
Hospital Department	1,141 86	
Commissary Department	535 16	
Captain of the Guards' Department Turnkey's Department	13,285 38	i
Turnkey's Department	12,802 05	
Mugineer 8 Department.	4 650 11	
Laundry Department	1 049 27	
Stock Department	5,973 36	
Warden's office		
Clerk's office	253 85	
Permanent furniture	4,799 96	
Prison improvement	412,488 06	
Wooden buildings	12,686 67	
Railroad material	2,664 16 7,561 01	
Quarry Light Department	7,561 01	
light Department	2,323 86	
Farm Department		
Real estate. Merchandise (supplies on hand). Warden's house.	15,000 00	
Werdandise (supplies on hand)	4,873 11	
State Treasurer (prison earnings).	59 23	
blade Treasurer (prison carmings)	12 693 31 1	
Due from sundry debtors	3,580 £1	
Thisomers mess	2,632 31	
Liabilities.		\$529,427 01
Unneid hills May 1800	#F 000 0F	
Inneid bills June 1800	\$5,398 07	
Unpaid bills, May, 1890 Unpaid bills, June, 1890 Salaries of officers and guards, June, 1890	5,899 87	
outailes of officers and guards, suite, reconstruction	3,556 62	44.054.50
•		14,854 56
Excess of assets		\$514,572 45

TABLE No. 6. Trial Balances.

	TRIAL BALANCI	TRIAL BALANCE, JUNE 30, 1890.	STATE PRISON AT FOLSOM.	AT FOLSOM.	TRIAL BALANCE, JULY 1, 1890.	2, JULY 1, 1890.
	Dr.	Cr.	Dr.	Cr.	Dr.	Cř.
	27, 261 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 27, 279 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2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2,826 77 2	\$151 05 \$150 00 210 00 460,420 77	\$2,617.27 \$844.77 1,141.86 13,286.38 12,802.53 12,806.11 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 1,049.27 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The account The Prison at Folsom, July 1, 1880.  Balance to credit of State Prison at Folsom  Totals	1,548 00 8684,324 02	\$684,324 02	1,348 % 515,754 91 \$1,129,018 31	\$1,129,018 31	\$581,597 11	\$581,597 11

### TABLE No. 7.

Financial Condition of the State Prison at Folsom, June 30, 1890.

Amount of appropriation for the forty-first fiscal year Amount in State Prison Fund Amount due from sundry debtors Amount of cash on hand June 30, 1890	\$110,000 00 12,693 31 3,580 61 2,617 27	\$128,891 19
Contra.		φ±20,001 []
Amount drawn from appropriation to June 30, 1890 Unpaid May and June supply and expense bills Unpaid salaries for June, 1890	\$99,163 17 11,297 94 3,556 62	
Onpaid salaries for June, 1000	5,500 02	114,017 7
Total amount of available assets in excess of liabilities June 30, 1890		\$14,873
A mount of normar borgo appropriation		\$112,500 or
Amount of power house appropriation.  Amount drawn to June 30, 1890	L\$20.699-25	ψ112,000 W
Amount unpaid May and June bills	30,287 72	, ,
, , ,		50,986 %
Balance in State Treasury after paying May and June bills		\$61,513 08
	<u> </u>	

# PHYSICIAN'S REPORT.

MEDICAL DEPARTMENT, FOLSOM STATE PRISON, July 1, 1890.

Capt. CHAS. AULL, Warden:

Sir: It again becomes my duty to formally report to you the medical and sanitary condition of this institution for the fiscal year ending yesterday. The accompanying tables exhibit in detail all needful information as to the work of the department during the year.

The general health of the prisoners has been good, but this is largely due to the open-air labor in which they are engaged, and other conditions which serve to reduce to a minimum the liability to disease. It may be said, however, in this connection, as well as in explanation of the tabulated number of cases treated, that no case, however trivial, is refused attention, and this rule of the department must be credited with the staying of sickness and mortality in the institution. Even under the most healthful conditions, people will get sick, and while we are as powerless to prevent the ills of bondmen as others are those of freemen, we can by proper attention and intelligent treatment, though it may cost something in time, patience, and money to do so, keep our people alive and comparatively well.

During the months of January and February of the current year, the institution was visited by the then prevailing epidemic, "La Grippe." Its coming had been foreshadowed and provision made to meet it, and though the experience and its results, the like of which are unknown in the history, not only of this prison, but of that of every other institution of similar character with which we are acquainted, entailed so much labor and care upon the department, still I cannot help but feel proud of the success with which the dread scourge was combatted. The first cases were at once removed to the hospital and then promptly and efficiently treated. The germ had, however, taken fast hold, and by the twenty-fifth of January, as exhibited by the records of the department, over two hundred cases were under treatment, some sixty of which were very bad. There were about thirty-five of these who had previously been subject to bronchial and asthmatical affections, and these sank rapidly into an extremely low asthenic condition. This, coupled with the bad werage, the ill ventilated cells of the prison, and the depressive influence of the severe winter weather then prevailing, made me almost despair of

wered, and not a single life was lost.

At this point I deem it instructive as well as interesting to invite the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the step of the s

aving some of them. But good care and careful nursing at last con-

COMPARATIVE TABLE OF MORTALITY -- PENAL INSTITUTIONS.

Report showing Death Rate at Various Prisons during the Years 1887, 1888, and 1889.

Name.	Daily Av- erage of Prisoners.	Year.	Deaths.	Death, per 1,000.
Allegheny County Workhouse, N. Y.	564	1888	10	17.3
Allegheny County Workhouse, N. Y. Allegheny County Workhouse, N. Y.	628	1889	5	7.5
Albany Penitentiary, N.Y.	837	1888	24	28.6
Albany Penitentiary, N. Y. Auburn State Prison, N. Y.	1,194	1888	12	18.
Clinton, N. Y.	1 762	1888	22	28,8
Dakota State Prison, Sioux Falls	83	1887	1	12.0
Dakota State Prison, Sloux Falls	92	1888	2	21.
Eastern Penitentiary, Pennsylvania	1,138	1888	18	15.8
Folsom State Prison, Cal.	540 488	1888 1889	7	12.0
Folsom State Prison, Cal	623	1890	8 3	12.5
Corroin Panitantiary	1.526	1887	51	4.8 33.4
Georgia PenitentiaryGeorgia Penitentiary		1888	30	19.
Indiana State Prison, South	557	1888	11	19.
Indiana State Prison, South	549	1889	13	23.0
Indiana State Prison, North	681	1888	îĭ	16.1
Iowa Penitentiary, Fort Madison	351	1888	5	14,5
Iowa Penitentiary, Fort Madison Iowa Penitentiary, Fort Madison Insane Criminals, N. Y.	356	1889	ĭ	28.0
Insane Criminals, N. Y.	209	1888	3	14.
Illinois State Penitentiary, Joliet	1.459	1887	28	19,
Illinois State Penitentiary, Joliet	1.321	1888	45	34.0
Kansas State Penitentiary	935	1887	16	17.1
Kansas State Penitentiary	938	1888	21	22.
Minnesota State Prison	398	1887	5	12.
Minnesota State Prison	426	1888	4	9.
Maryland Penitentiary	567	1888	11	19.4
Massachusetts State Prison	556	1888	3	5.4
Maryland Penitentiary Montgomery County Prison, Pa. Milwaukee House of Correction	665	1889	9	13,
Montgomery County Prison, Pa.	71	1889	2	28.1
Milwaukee House of Correction	227	1888	4	17.0
Massachusetts Reformatory	725	1887	2	2.
Missouri State Penitentiary	1,636	1887	20 22	12.5 12.5
Missouri State Penitentiary	1,720	1888		12.
New Jersey State Prison		1888 1889	5 9	9.
New Jersey State Prison North Carolina Penitentiary	392	1889	26	66.3
North Carolina Penitentiary	339	1887	17	50.1
New Hampshire State Prison		1889	17	9.
Nebraska State Penitentiary	333	1887	4	120
Nebraska State Penitentiary	305	1888	4	13.
Nevada State Prison (two years)	114	1887-8	i	10.
Oregon State Penitentiary	262	1887	5	19.
Oregon State Penitentiary	257	1888	4	15.
Ohio State Penitentiary	1,390	1888	16	11.
Rhode Island State Prison	1,000	1888		
Rhode Island State Prison	125	1889	2	16.
Southern Illinois Penitentiary	782	1887	16	20. 3.
Southern Illinois Penitentiary	763	1888	3	
St. Paul Workhouse Sing Sing Prison, N. Y. San Quentin Prison, Cal.	162	1889	2	12.
Sing Sing Prison, N. Y.	1,534	1888	15	9.
San Quentin Prison, Cal	1,277	1888	32	25.
San Quentin Prison, Cal Texas State Prisons (two years), Huntsville and Rusk,	1,338	1889	34	25
Texas State Prisons (two years), Huntsville and Rusk,	1	l		ا ا
including sold labor at different camps	3,129	1887-8	223	71
At prisons proper (estimated) United States Military Prison, Fort Leavenworth, Kan.	699	1887-8	99	141
United States Military Prison, Fort Leavenworth, Kan.	490	1888	3	6/
Virginia State Penitentiary Western Penitentiary, Pennsylvania	655	1888	22	33
Western Penitentiary, Pennsylvania	686	1887	8	11.
Western Penitentiary, Pennsylvania	664	1888	4	1
•		<u> </u>	<u> </u>	1

With reference to the sanitary condition of the prison, I desire urge the crying necessity of overhauling the imperfect, patched broken, and totally inadequate sewer system now in use, and replacifit with one of new and improved construction, which shall be equal.

least, to the present and growing demands of the institution. The elimination of sewer gas and the mephitic vapors arising therefrom will never be accomplished until this is done. Some means should also be adopted for more perfectly ventilating the cells of the prison. A large proportion of the cases daily treated by me emanate from these two causes alone—defective sewerage and imperfect ventilation.

I desire to commend the thorough cleanliness with which the cell buildings, the dining-rooms, kitchen, bakery, and accessories are kept; and the universal tidiness and neatness that pervades all departments is gratifying indeed to a conscientious physician having the care and

consideration of such a close community as this one is.

I desire to take issue with the effort that is being made in certain quarters tending to establish at this prison a "Sanitarium" or "Lyingin Asylum" for all the broken down phthisical criminals of the State. I will admit that the climate here is all that can be said of it, so far as its benefits are concerned to the consumptive, the rheumatic, and the syphilitic; but so long as the present sanitary conditions here obtain, and until our narrow and limited hospital accommodations are enlarged, it would be not only unwise and inhuman, but exceedingly detrimental to the interests and health of this institution, to foist upon it the burden and care of the bacillus-bearing criminal to propagate and spread disease and death in our little community. To treat tuberculosis successfully strict isolation must be resorted to, and the most stringent aceptic conditions observed in order to insure favorable results. How can we do this in our one small room with only six beds, which comprise our present hospital accommodations for six hundred and sixtyfive men? Let the doctors, the lawyers, the committing magistrates, the Boards of Health, the police departments, and citizens and taxpavers of the State, generally, unite in securing us appropriations with which to provide right and proper accommodations, and we will then undertake to care for and administer to all that may be sent to us.

The supplies and stores furnished for the maintenance of the prisoners are, I find, of the best quality, but the means for properly preparing them for food are entirely incommensurate to the requirements. You cannot fitly make ready the bills of fare which you provide, and which is deemed so necessary to the proper nourishment and sustenance of our laborers in the heavy work of the quarry, canal, and ranch upon one small range, and in the stuffy, narrow quarters here denominated kitchen. Others and larger conveniences should be provided, not only for the welfare and health of the prisoners themselves, but for the saving

and economy resulting therefrom to the State.

I should consider this report incomplete did I not call attention to the approaching necessity for additional cell room. While the needs of the present are provided for, the increment of the near future must be, in order that overcrowding be prevented, and safety and comfort and convenience be maintained.

Permit me to thank you for the able support you have given me during the past year, and for the prompt and generous attention paid to my requisitions for supplies. Let it not be forgotten that the State is here arrying on a vast physical enterprise, in which the forces of Nature and be science and arts of man are in daily conflict, entailing, in spite of very precaution and safeguard, disease, accident, and death. The

humane consideration with which you have so kindly seconded my efforts to cure the one, repair the other, and stay the last, is most heartily appreciated and herewith gratefully acknowledged by Your obedient servant,

THOS. B. EAGLE, Physician.

Nonthly Details of Medical Department, Folsom State Prison.

1	l., .		0082
	Percentage		s
INSANE ACCOUNT	Remaining in Asylum		2
A CC	Term Expired in Asylum.	H67 H	2
SANE	Returned from Asylum		-
Ä	Sent to Asylum	50	က
	In Asylum, July 1, 1889	5	20
UNT.	Percentage of		2.09
Acco	Remaining		13
INCAPABLE ACCOUNT	Transferred from		14
CAPA	Assigned to	01-01-01-000	61
I'n	Number of, July 1, 1889	σ	∞
	Remaining		7
HOSPITAL ACCOUNT.	Rate of Mortality		.0048
Accou	Died		က
Новртта	Discharged	01-00000-400	#
Hosı	Admitted	2012224544	42
i [	In Hospital, July 1, 1889	4	4
į.	Cost of Each Call	\$0 21.0 21.0 21.0 12.0 10.1 10.1 10.8 11.2 15.5	\$0 13.3
Cosr.	Total Cost of Department.	\$102 47 193 76 102 25 101 27 101 27 195 38 195 38 1156 99 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189 51 1189	1,804 14
86	Daily Average	87.85.45.10 87.85.45.10	7
EXCUSES.	Total Number Excused from Labor	201 1459 1459 1739 1730 1730 1730 1730 1730 1730 1730 1730	2,440
	Daily Average	22222222222	8
CALLS.	Total Calls upon Physician	847 750 803 803 804 803 1,927 1,209 1,202 1,202 1,202 1,202 1,202	13,570
Avera	age Prison Population	555 588 588 504 621 631 631 650 650 662 665 665	623
	Month.	1889—July — August — September — October — November — December — 1890—January — Rebruary — April — April — April — June — June — June — June — June — April — April — April — April — April — April — April — June — June — June — June — April — April — April — April — June — June — June — June — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April — April —	Totals

### TABLE B.

Yearly Summary of the Medical Department of Folsom State Prison.

Leaving Summary by the Mouteau Department of				
Diseases.	Total Number of Dispensary Calls during the Year	Total Number of Patients Treated in Hospital during Year	Total Number of Deaths during Year	Total Number of Surgical Operations of every kind during year
AsthmaAbscess, phosas	97	1	1a	<u>i</u>
Biliousness	495	-		- 1
Boils	421	\		
Bite, human		2		i
Brain, inflammation of		1	16	
Bowels, inflammation of		ī		
Catarrh	141			
Constipation	598			
Colic, simple	693			
Colic, gastric	000	1		
Coughs	1,632	_		_
Carbuncle	7			7
Conjunctivitis	19			
Diarrhea	747	1		
Dislocation of humerus.	'-'	Ī		1
Dysentery	19	i ī		i
Eczema	33	ì		
Erysipelas	34			
Epilepsy	-	1		
Eyes, melted lead in	,	ī		1
Eyes, foreign bodies in	36	_	} <b></b>	36
Folong	87			21
Felons Fracture of tenth, eleventh, and twelfth ribs	¦ •••	1		14
		l ī		10
Compound fracture of tibia and fibula  Amputation of left index finger		ī		16
Amountation of left index finger		_		1f
Fever, remittent	3	4		
Hemorrhoids	166	_		
Insomnia	300			
Indigestion	379			
Lungs, congestion of	""	2		
"La Grippe"	555	3		
Lupus	3			
Malaria	1,037	3		
Muscles, rupture of	1,00	ı	l	1
Neuralgia	243			å
Onychia	18			
Phthisis	239	2	10	
1 H0HH010			,	,

### TABLE B-Continued.

Diseases.	Total Number of Dispensary Calls during the Year	Total Number of Patients Treated in Hospital during Year	Total Number of Deaths during Year	Total Number of Surgical Operations of every kind during Year
Pneumonia	13 679	1 5		
Rhus tox	18	9		
Sarafula	59	1		
Syphilis	201	1		
Syphilis Spinal injury		1		1
Sprains	118			
Teeth extracted	109 302			109
Wounds contused	401	3		302 404
Wounds, contused	3,671			52
				<u> </u>
Totals	13,570	42	3	941
		1		

0

a Charley Dick, No. 1885, an Indian, died December 1, 1889. Abscess formed and discharging when received at prison.

b Harrison, No. 1895, died July 20, 1889: was a confirmed opium fiend.

c Flannigan, No. 430, died September 29, 1889; was an old man sixty-seven years of age.

d McCuedy, a one-armed man; slipped from ladder.

e Reisland, injured by falling "grout box."

f Stein; limb literally mashed; amputation deferred on account of weak condition of patient and because of slight chance of saving the limb. Owing to laceration of muscles and punctum wounds, caused by protruding bones, an improved fracture box was designed which admitted dressing without removal of splints. Careful aceptic conditions were observed, and a series antiseptic dressings constantly applied. Under this treatment the wounds slowly healed, and July fourth the patient made use of crutches for the first time, the uniting of the calices beliftenly effected. Present indications are to a complete recovery and perfect use of limb.

g Balderamo, a Mexican, was bitten to the bone at the knuckle joint of the left index fing The poison was prevented from spreading by heroic treatment with lodine and iron, and Janua sixth amputation was made, with success.

## BIENNIAL REPORT OF THE TRUSTEES

AND THE

# FOURTEENTH AND FIFTEENTH ANNUAL REPORTS

OF THE

# RESIDENT PHYSICIAN

OF THE

# NAPA STATE ASYLUM FOR THE INSANE.

1890.



SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# OFFICERS OF THE ASYLUM.

### BOARD OF TRUSTEES.

BENJAMIN SHURTLEFF, President	Napa.
J. C. MARTIN	Oakland.
J. Q. BROWN	San Francisco.
J. F. LAMDIN	Napa.
G. M. FRANCIS	Napa.
TREASURER AND EX OFFICIO SECRETARY.	
C, B. SEELEY	Napa.
RESIDENT OFFICERS.	
E. T. WILKINS, M.D.	Resident Physician.
L. F. DOZIER, M.D.	Assistant Physician.
A. M. GARDNER, M.D.	Assistant Physician.
DRIESBACH SMITH, M.D	Assistant Physician.
J. B. STEVENS	Secretary.
J.M. PALMER	Steward.
MRS. JENNIE HAWKES	Matron.
JOHN HAWKES	Supervisor.
W. H. MARTIN	Druggist.
LD HAAS	Steward's Clerk.

### REPORT.

To his Excellency Robert W. Waterman, Governor of the State of California:

In compliance with the law, the Board of Trustees of the Napa State Asylum for the Insane respectfully submits a report of the financial and general condition of the institution for the two fiscal years ending with the thirtieth day of June, 1890. The Board also makes a number of recommendations concerning the future management and welfare of the asylum.

There was an undrawn balance in the deficiency appropriation for the fiscal year ending with June 30, 1889, of \$4,935 57. It will be seen by the Treasurer's report herewith submitted, that the fund for the improvement of gasworks, and the fund for the improvement of floors and hallways, have been expended for the purposes for which they were

appropriated.

The last Legislature appropriated \$408,800 for maintenance for the two fiscal years ending with June 30, 1891. By the terms of this appropriation, only one half of this amount, the sum of \$204,400, was available to meet the expenses of the fiscal year which closed on the thirtieth of June last. The expense for maintenance for the last named year was \$194,971 81, leaving a balance undrawn, which is available for the current fiscal year, of \$9,428 19. Vouchers for all expenditures are on file in the office of the Treasurer, except those for the contingent fund, which are filed in the office of the Resident Physician.

The following statement shows the receipts and expenditures, on account of the contingent fund, for the two fiscal years ending June 30, 1890

To balance June 30, 1888.	\$2,617	75.	
To amount received for board	22,790	00	
To amount received for Steward's sales	2.246	25	
To amount received for sale of land			
To amount received for rent of land	10		
To almost the received for real of failed		<b>\$27,899</b>	75
Expenditures.		Ψ21,000	
Painting	\$298	75	
Books and papers	165		
Hardware			
Waterworks			
Garden hose and reels			
Repairs	38		
Continuon A			
Cartmen.	2,066	92	
Improvement of grounds.	339	16	
Blasting powder and fuse			
Lumber		82	
Water pipe and castings		20	
Brick, Iime, and cement		20	
Interest		<b>20</b>	
Rent of telephone	100		
Returned to pay patients	240		
Fires and shrubs	200		
Pasturage	60	00	
Carried forward	\$9,883	19	

Brought forward	\$9,883	19
Inspection and insurance of boilers	285	
Freight	93	70
Horses	570	00
Labor	521	00
Service of stallions	150	00
Rubber boots and coats	54	75
Sewer pipe	189	24
Gravel	30	00
Construction of cistern	467	00
Hire of team	48	00
Pig lead	26	
Infirmary foundations	3,439	11
Slate for roof of infirmaries	1,117	85
Hot house	722	91
Fencing	125	00
Laving flooring	392	
Fire hose and reels	126	00
		<b> \$</b> 18, <b>24</b> 0 90

The receipts for this fund for the two fiscal years ending with June 30, 1890, amounted to \$25,282, against \$23,353 58 for the two fiscal years ending June 30, 1888, showing an increase of \$1,928 42.

On the fifteenth of December, 1888, Dr. John W. Robertson tendered his resignation as Third Assistant Physician, which was subsequently accepted by the Board. During his term of service at the asylum, Dr. Robertson displayed a commendable interest in the department assigned him, and discharged the responsible duties of his office with market ability and success.

By authority of an Act of the Legislature, approved March 19, 1889, at the stated meeting the following April the Board appointed Dr. Driesbach Smith, of Los Angeles, as Third Assistant Physician. Dr. Smith is a young man of flattering promise in the profession, and we are happy to say is faithfully and successfully performing the important duties of his office. He receives as a compensation for his services \$125 per month.

At the regular meeting of the Board in October, 1889, after ten years of most faithful and efficient service, Dr. Frederick W. Hatch tendered his resignation of the office of Second Assistant Physician. The Board accepted his resignation with a measure of sorrow and regret, that was only mitigated by the assurance that he was about to enter a broader field of usefulness to the State, by promotion to the position of Medical Superintendent of the State Insane Asylum at Agnews.

At the monthly meeting in February, 1890, Dr. Alden M. Gardner, of Calistoga, was elected to fill the vacancy in the office of Second Assistant Physician. It gives us much pleasure to state that Dr. Gardner fills the office with a zeal, skill, and ability that proves him worthy to succeed his accomplished predecessor.

By authority of a law passed by the last Legislature, on the four-teenth of August, 1889, the Board, in consideration of the payment of \$35 75, sold to the County of Napa, for a public highway, a strip of land across the northeast corner of the asylum premises, containing are area of one and forty-seven hundredths acres.

Under the same law, the Board also sold to James Kennedy the piew of land thereby detached, embracing an area of eight acres, for \$200.

In adjusting the boundary between the asylum estate and land owned by Patrick Golden, on the line of a stone fence belonging to the asylum Golden conveyed by gift deed to the State a narrow strip of land containing one acre.

The total area of all lands belonging to the asylum estate is one thousand one hundred and fifty-eight and nineteen-twentieths acres.

Inspired by the broad spirit of an enlightened charity that reflects the highest honor upon the State, the last Legislature made the requisite appropriation of \$28,000 for building and furnishing the long-sought infirmaries, so urgently necessary for the relief of a class of pitiful sufferers committed to our charge. The two infirmaries, one for each sex, are already completed, and within a few weeks will be furnished and occupied.

Since our last biennial report a number of important, desirable improvements have been made. Maple floors have been laid in nine more wards, making in all twenty-one, which leaves only ten in the building with pine floors. These are wearing out and should soon be replaced with maple.

A cistern, with a capacity of ninety thousand gallons, has been constructed for storing the night drainage of the asylum, that it may be distributed in the daytime for irrigating and fertilizing purposes. Besides other improvements, another reservoir, large enough to hold twenty million gallons, is being built. The capacity of the four reservoirs is now more than forty million gallons, and, when completed, will be ample for the storage of fifty million gallons of water.

Accompanying this communication as a part thereof, is the usual interesting, instructive report of Dr. E. T. Wilkins, the Resident Physician. His report gives a complete account of all important matters pertaining to the institution for the two fiscal years just closed, and makes many practicable recommendations for the future management of asylum affairs.

During the fiscal year ending June 30, 1889, one hundred and seventy-seven patients were transferred from this asylum to the State Insane Asylum at Agnews. Number of patients in the asylum June 30, 1890, was one thousand three hundred and forty-four. The daily per capita cost for the fiscal year ending with June 30, 1889, was 41 cents; for the last fiscal year it was 40 cents. The appropriations asked by the Resident Physician for maintenance, for repairs and painting, and for building and furnishing a kitchen adequate to the wants of the asylum, are imperative necessities, and received the earnest indorsement of every member of the Board.

Respectfully submitted.

BENJAMIN SHURTLEFF, J. C. MARTIN, J. Q. BROWN, J. F. LAMDIN, G. M. FRANCIS,

Trustees.

August 25, 1890.

## TREASURER'S REPORT.

To the honorable Board of Trustees of the Napa State Asylum for the Insand

Gentlemen: I herewith present my report as Treasurer of said asylum for the fiscal years ending June 30, 1889, and June 30, 1890, on account of maintenance, the construction of infirmaries, improvements in floor and hallways, and enlargement of gasworks. Vouchers are in my office for all moneys paid out:

THE TREASURER IN ACCOUNT WITH MAINTENANCE FUND FOR THE FISCAL YEAR ENDING JUNE 30, 1889.

### Receipts.

Balance on hand per last report	<b>\$169</b> \$	
Received from the State for May, 1888 (deficit)	4,665	77.
Received from the State for June, 1888 (deficit)	15,903	76
Received from the State for July, 1888	16,824	56
Received from the State for August, 1888	16,101	78
Received from the State for September, 1888	17,179	44
Received from the State for October, 1888	16,790 (	62 🚪
Received from the State for October, 1888	19,435	29
Received from the State for December, 1888	19,224	
Received from the State for January, 1889		
Received from the State for February, 1889	18,417	
Received from the State for March, 1889		
Received from the State for April, 1889	16,516	
Received from the State for May, 1889	15,057	
Received from the State for June, 1889	17,597	
,,,,,,		_1
Total receipts	\$230,803	86
Expenditures.		1
Paid out on orders of the Board of Trustees	223,353	21
		-3
Balance on hand	\$7,450	69.
		-

# THE TREASURER IN ACCOUNT WITH MAINTENANCE FUND FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

Receipts.	
Balance on hand Received from the State for July, 1889 Received from the State for August, 1889 Received from the State for September, 1889 Received from the State for October, 1889 Received from the State for November, 1889 Received from the State for December, 1889 Received from the State for December, 1889 Received from the State for January, 1890 Received from the State for February, 1890 Received from the State for April, 1890 Received from the State for April, 1890 Received from the State for March, 1890 Received from the State for June, 1890 Received from the State for May, 1890	16,467 74 16,174 19 16,657 43 16,272 44 17,556 26 16,293 66 17,131 00 15,172 72 17,125 76 16,711 60
Total receipts	\$202,422 4
Expenditures.	
Paid out on orders of the Board of Trustees.	194,971 8

# THE TREASURER IN ACCOUNT WITH THE INFIRMARY FUND FOR THE FISCAL YEAR ENDING JUNE 50, 1890.

### Receipts.

100000000		
Received from the State for August, 1889 Received from the State for October, 1889 Received from the State for December, 1889 Received from the State for January, 1890 Received from the State for February, 1890 Received from the State for March, 1890 Received from the State for April, 1890 Received from the State for May, 1890 Received from the State for May, 1890 Received from the State for June, 1890	7,108 { 2,712 { 1,821 { 2,069 { 2,136 { 1,599 { 1,599 { 1,733 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599 { 1,599	95 86 86 86 86 86 86 86 86 86 86 86 86 86
Total receipts		_
Expenditures.		
Paid out on orders of the Board of Trustees	19,986 2	5

# THE TREASURER IN ACCOUNT WITH IMPROVEMENT OF GASWORKS FOR THE FISCAL YEAR ENDING JUNE 30, 1889.

### Receipts.

Received from the State for June, 1889	\$1,574 93 79 57 345 50
Total receipts	\$2,000 00
Expenditures.	
Paid out on orders of the Board of Trustees	2,000 00

# THE TREASURER IN ACCOUNT WITH IMPROVEMENT OF FLOORS AND HALLWAYS FOR THE FISCAL YEAR ENDING JUNE 30, 1889.

### Receipts.

\$1,284 69
168 00
178 83
368 48
\$2,000 00
•
2,000 00
_

### Respectfully submitted.

C. B. SEELEY, Treasurer.

Napa, August 13, 1890.

1,344

569

# From June 30, 1889, to June 30, 1890.

Number remaining June 30, 1890

#### Females. Total. 791 1,349 Number of patients June 30, 1889. 296 Number admitted during the year\_\_\_\_\_ 190 Number under care and treatment 1,645 $\begin{array}{c} 22 \\ 35 \end{array}$ 106 Number discharged, recovered Number discharged, improved 69 Number discharged, unimproved Number discharged, not insane.... 26 103 Number eloped ... Number removed to Agnews \_\_\_\_\_ 95 301 Discharged, died, and eloped

While the above table shows the smallest number of commitments ever made to this asylum (two hundred and ninety-six), it also shows that the discharges and deaths were less. Hence, the number remaining at the end of the last fiscal year (one thousand three hundred and forty-four) was only five less than at the beginning of the year. This is due to the fact that a large portion of our patients have been inmates for years; many have become chronic, and the percentage of recoveries among them will become less, year by year.

### COUNTIES.

Table No. 1 shows that patients were received during the year from thirty counties. San Francisco sent us one hundred and thirty-one. The northern coast counties, including Marin, Sonoma, Mendocino, Humboldt, and Del Norte, thirty-two. The southern counties, Santa Barbara, Ventura, San Diego, Los Angeles, and San Bernardino, thirty-six; and from the remaining nineteen counties, ninety-seven.

### NATIVITY.

Table No. 2 shows that the two hundred and ninety-six patients admitted are the representatives of twenty-seven States and twenty-eight foreign countries, divided as follows: United States, one hundred and forty-eight; foreign countries, one hundred and forty; unknown, eight. This also breaks the record, since it is the first time that a greater number of Americans than foreign born have been committed to this asylum.

### AGES.

Table No. 3 shows the ages of those committed during the year to tange from ten to seventy years, and sustains the fact, that more persons are deprived of their reason between the ages of thirty and forty, than any other period of life, and that the susceptibility to insanity diminishes as you go up or down the line. Yet any age has its liability.

## REPORT OF THE RESIDENT PHYSICIAN.

To the honorable Board of Trustees of the Napa State Asylum for the Insane

GENTLEMEN: Since the date of your last biennial report the flight of time has left two more years behind, of which, as Trustees of this asylum you have yet to render an account of your stewardship.

### ANNUAL SUMMARY.

The following table from my fourteenth annual report, shows the movement of patients for the fiscal year ending June 30, 1889:

### FROM JUNE 30, 1888, TO JUNE 30, 1889.

· ·	Males.	Females.	Total.
Number of patients June 30, 1888	884 253 2	585 148 1	1,46 40
Number under care and treatment	1,139	734	1,87
Number discharged, recovered	7 105	35 41 2 4 33 61	11 7 1 13 17
Discharged, died, and removed	348	176	52
Number remaining June 30, 1889	791	558	1,34

From this table you perceive, for the first time in the history of this asylum, a material decrease in the number of patients during the year As you are aware, this result is due to the opening of the asylum a Agnews, in Santa Clara County, to which were transferred during the months of October, 1888, and February, 1889, one hundred and seventy seven patients—one hundred and sixteen men and sixty-one women-leaving upon our books, June 30, 1889, one thousand three hundred and forty-nine patients.

From these facts, we had a right to conclude that with the discharge and deaths, there would be a perceptible decrease in numbers until the proper capacity of this asylum was attained. In this cherished hope however, we have been disappointed, as will be seen from the following table, showing the movement of patients for the year ending June 30 1890:

#### CAUSES.

This is the most unsatisfactory, uncertain, and difficult question wi which we have to deal in connection with this mysterious, dangero and distressing disease. The manifestation is very often, nay, general assigned as the cause of mental derangement, when in reality it is or the effect of the real cause. Heredity, for instance, is not very off assigned as the cause, when in fact we know it is the cause in mar cases. The same may be said of alcohol, which, though one of the lea ing assigned causes, is also the most prolific of all causes in dethronia the reason. Many cases of ill health, domestic infelicity, immoralis vicious habits, and crime have their origin in the use of stimulant whether whisky, beer, wine, or any other form of alcohol, which, take immoderately, lead to insanity, either primarily or remotely.

Now, while we know that stimulants have been used from the earlie period of recorded time, and believe it will be to the end of time, we at also satisfied that a bridle can be put upon it by wise municipal regula

tions and a conservative public opinion.

Prohibition may be, probably is not possible, but high license, ver high license, is within the reach of every community, and by this mean infirmaries, the construction of which we have so long desired and so the low dens, pitfalls, and the sale of stimulants at corner groceries ca be stopped, and the evil consequences originating through them great ameliorated, to say the least. That the power of the press, aided h honest dealers, wise ordinances, public opinion, and faithful officers, ca do much to mitigate the evil and pernicious practices, is in a measur proven by our records.

During the fiscal year ending June 30, 1889, seventeen men and on woman were committed to this asylum who had been addicted to the who were indulging in this seductive habit, but also upon those wh were selling the drug, and, being aided by other papers, so directed public attention to its untold evils that the commitments grew less an less, until they almost ceased. The year ending June 30, 1890, show that only two men and one woman were sent to us from this cause Comment is unnecessary.

### RECOVERIES AND DEATHS.

The percentage of recoveries was 35.81, and of deaths 6.26, both most favorable under the circumstances. The principal causes of death were organic disease of the brain, consumption, paralysis, and epilepsy, has always been the case in this asylum.

### ESCAPES.

The elopements were few indeed, considering the large number who out on the grounds, and the liberty allowed them. Indeed, it seems that the disposition to escape diminishes with the freedom granted.

### STEWARD'S REPORT.

I respectfully refer you to the report of the Steward, J. M. Palmer for a clear and itemized account of the purchases, disbursements, and

capita cost of maintenance. Also, for the products of the farm, rden, dairy, orchard, and vineyard. The continued rains of last inter have been more or less disastrous in some departments. The y and fruit crops have been diminished at least 50 per cent, while out 4 per cent of the fruit trees have died from the effects of the long et season. This scarcity of fruits deprives our patients and employés much pleasure and satisfaction that they have heretofore enjoyed; et half a crop is better than none, and with it we must be satisfied.

#### PER CAPITA COST.

From Table No. 3 of the Steward's report you will observe that the er capita cost of maintenance for the year was 41 cents, nearly 1 ent higher than that of the previous year. It only shows that the trictest economy is still practiced in the administration of this asylum.

### IMPROVEMENTS.

The most important improvements made during the year are the two perseveringly sought to obtain. For ten long years we have urged upon each succeeding Legislature the urgent necessity of having these adfuncts to our asylum, that we might be enabled to take better care of a certain class of our patients—the sick and feeble, who require special diet, special attention, and that quiet and freedom from noise which

could not be obtained in an ordinary ward.

The last Legislature made an appropriation of \$28,000 to build and furnish these infirmaries, and they are now nearly completed and ready opium habit. One of the leading daily papers of the City of San Frank for the furniture. They will comfortably accommodate twenty-five cisco, in several able articles, made a vigorous attack, not only on those patients each, and by crowding, thirty. Copeland & Pierce, of San Francisco, were the architects, and Corlett & Sons, of Napa, the contractors. The buildings are one-story, and contain eight rooms and two dormitories each, including sitting-room, attendant's-room, kitchen and dining-room; with closets, bath-room, and clothes-room added. The sitting-room, dormitories, and dining-room are to be warmed by open fires, protected by strong screens, which gives them a comfortable and home-like appearance; and if these are found inadequate, other means can be added at small cost. They are built upon stone foundations, three feet above ground, and have a gallery in front. Of course, they will add somewhat to the per capita cost of maintenance, but the benefits to be derived will, in my opinion, more than justify the outlay. They will be occupied sometime in September next.

### CISTERN.

The cistern, constructed in the garden, west of the county road, with a capacity of ninety thousand gallons, was for the purpose of securing the water that passed through the asylum at night, that it might be used for irrigating purposes on the lands below, instead of running off into tide water. With its use we are enabled to have green meadows at all seasons of the year.

### RESERVOIRS.

The construction of another reservoir has been undertaken since you last report, and will add several million gallons to our present supple next season; and when completed, its capacity will be twenty million gallons. It will not only be the most elevated, but most beautiful of the group, and is known as Lake Como. It can be discharged either into Lake Camilla or Lucerne, and if need be, by a separate system of pipes to irrigate lands that cannot be reached by either of the other reservoir. The great object in view in the construction of these reservoirs, notwith standing we have an abundant supply for the lawns and flowers, is to increase the quantity of alfalfa for our dairy cows. Good pure milk is among the best articles of food that can be given to the sick; while all are fond of it. And this we cannot have in great abundance without green feed for the cows the whole year.

### NEW FLOORS.

New maple floors have been recently laid in five additional wards. There are still ten wards which will require new floors, and I trust we will be able to reach them ere another report will be made.

Material has been purchased for the construction of a stable and hay barn at the ranch, forty by twenty-four feet in size; and a building of like dimensions for the storage of straw for bedding. They will soon be completed and ready for use.

### APPROPRIATIONS NEEDED.

In addition to the appropriation for maintenance, which, in my judgment, should not be less than that of two years ago, since we begin the present year with one thousand three hundred and forty-four patients, and cannot expect much relief until one of the asylums provided for by the last Legislature shall be ready for their reception. That in the southern district being far removed from any asylum, should be pushed to completion with all the vigor possible, to avoid the fatigue, danger, and expense involved in transporting insane persons to such a distance, as is now necessary.

### NEW KITCHEN AND DINING-ROOM.

The kitchen now in use for this asylum was intended to do the cooking for five hundred patients; but since the population has increased almost three-fold, and will never be less than one thousand two hundred, it is too small to accomplish the work properly. In addition to this objection, it is poorly ventilated, and the odors eminating from it permeate every portion of the executive building, as well as the wards above it.

I submit for your consideration plans for this improvement, drawn at my request by Corlett & Sons, of Napa. It will be one-story, ventilated through the roof, which is to be constructed for the purpose. A dining-room for female attendants will be under the same roof. Also meat house, which is greatly needed for the preservation of our meats. A scullery and pantry are also provided for. Its cost will be about

\$14,000, besides the furniture, most of which will have to be new, as that in the old kitchen has been in use fifteen years, and must be removed in any event.

Should this improvement be made, the old kitchen can be advantageously fitted up, and used as an associate dining-room for quiet patients. This would vacate a few of the ward dining-rooms, which would, to that extent, relieve the pressure on the wards.

### REPAIRS.

Under this head much is needed which cannot be delayed without serious injury to the property under your care.

The galvanized cornice of the entire building needs repairing and repainting. The conducting pipes from the gutters are fast giving out, being made of tin, and should be replaced with iron pipe. Two of the boilers were repaired during the year at a cost of \$750, and two more are liable to give out at any time, as they have been in constant use for fifteen years. Indeed, any building fifteen years old must need constant attention, or it will deteriorate; \$5,000 per annum will probably be required on this account.

### RESIGNATIONS AND APPOINTMENTS.

On the fifteenth of November, 1888, Dr. John W. Robertson resigned his position as Third Assistant Physician, for the purpose of engaging in private practice in San Francisco. Having, in a previous report, expressed my appreciation of his accomplishments as a physician, and qualities as a man, it is only necessary for me to express the gratification it affords me to state that he is meeting with success in his practice; surely he has my best wishes.

Dr. Driesbach Smith, an intelligent young physician of Los Angeles, was appointed to succeed Dr. Robertson, in April, 1889. And it affords me pleasure to say that he fills the position most acceptably. He not only performs the duties assigned him with a cheerful and accommodating spirit, but evinces a decided interest in the welfare and success of the institution.

In my opinion it would be greatly to the interest of the asylums of this State if the Boards of Managers were invested with authority to employ one or two promising young graduates of medicine (when deemed necessary), to act as internes each year. A moderate salary would be all that could be required, as the information gained by a year of asylum practice would be of great value to them and a benefit to the asylums.

After more than ten years of active and most efficient service as Second Assistant Physician to this asylum, Dr. F. W. Hatch severed his connection with us to take charge of the Asylum for the Insane at Agnews, in Santa Clara County, on the first of December, 1889. Dr. Hatch had so endeared himself to the officers, employés, and patients of this institution, by a rare combination of admirable qualities, whether in the line of his profession, the active, energetic effort to perfect the organization of the asylum, his affable, agreeable manner and sympathetic nature, that we all felt as if a member of the family had left us, and all knew that we had lost from among us a valued and steadfast friend. Our consolation is, that his valuable services and ripe experi-

ence are not lost to the specialty or the State, since his promotion to a more responsible position and broader field will enable him to make an enviable reputation for himself, by faithful service to the commonwealth and best treatment of the unfortunates committed to his care.

As all physicians connected with asylums for the insane should possess certain special characteristics and qualifications, not absolutely necessary in ordinary practice, together with a taste for the treatment of mental diseases, the Board of Trustees acted wisely in deferring the election of a physician to fill the position made vacant by the resignation of Dr. Hatch, until a man could be found endowed with all the qualifications deemed necessary to fill the position.

Being satisfied on these points, Dr. A. M. Gardner was duly elected at the regular meeting of the Board in February last, to assume the duties of his office on the first of March, 1890. Dr. Gardner has been practicing medicine and surgery for thirteen years in this county, and had already attained a widespread reputation for ability and skill in his profession; and I am pleased to say that he has entirely fulfilled the promise of our expectations here. His studious habits are constantly adding to his store of knowledge, and his desire to progress in the science of psychiatry gives promise of good results in the future.

### CONFERENCE OF ASYLUM MANAGERS.

On the fifteenth of July of the present year, the Superintendents and Boards of Managers of the asylums for the insane, met by agreement to consider and discuss all matters that might be of interest or prove a benefit to the institutions under their care. Dr. H. N. Rucker, Medical Superintendent, and Doctors Young, Phillips, and Hoisholt, Assistant Physicians, of the Stockton Asylum; Dr. E. T. Wilkins, Resident Physician, and Dr. A. M. Gardner, Assistant Physician, of the Napa Asylum; Dr. F. W. Hatch, Medical Director of the Agnews Asylum; Directors Harvey, Dorrance, Johnson, and Thornton, of the Stockton Asylum; Dr. Benjamin Shurtleff and Mr. J. F. Lamdin, Trustees of the Napa Asylum; B. D. Murphy, President of the Board of Trustees of the Asylum at Agnews; Mr. Drew, President of the Board of Trustees of the San Bernardino Asylum, and Mr. Curlett, architect, were present. Dr. G. A. Shurtleff, the honored ex-Superintendent of the Stockton Asylum, was elected an honorary member, and took his seat in the association.

Dr. E. T. Wilkins was elected President, and Dr. F. W. Hatch Secretary. The Association of Superintendents and Boards of Managers of California Hospitals for the Insane was the name of the organization Various matters of interest were discussed by the association, and committees appointed to report at the next annual meeting.

Committees were appointed as follows:

On Revising Commitments: Wilkins, Rucker, and Hatch. On Revision of Statutes: Murphy, Harvey, and B. Shurtleff. On Post Mortems: Gardner, Pratt, and Hoisholt.

On Advertising and Supplies: Watt, Murphy, and Shurtleff.

After favorably discussing the necessity for completing the asylum for the criminal insane at San Quentin, the importance of establishing training schools for nurses at all of the asylums, and the deportation of insane Mongols, the Association adjourned to meet at Napa, July 15, 1891.

### OBLIGATIONS.

A few books, periodicals, and papers have been presented by friends for the use of our patients, for which we return our thanks. But in addition to these, I am impressed with the importance of procuring some pictures and cheap musical instruments, to be placed in the wards, for the diversion of the minds and the amusement of the patients.

As year after year passes away, the continued kindness and support of the Board of Trustees places me under additional obligations to its members, for which I again express my grateful thanks.

Respectfully,

E. T. WILKINS, Resident Physician.

August 9, 1890.

211

# APPENDIX.

## APPENDICES.

# NUMBER OF ADMISSIONS, RECOVERIES, DEATHS, ETC.

The following table exhibits the number of admissions, recoveries, discharges, deaths, elopements, number resident at the close of each year, the increase or decrease for each year, whole number treated each year, and in the aggregate; also, the ratio of recoveries and deaths each year, and for the whole time, from November 15, 1875, to July 1, 1890:

YEARS.	Admissions	Recoveries	Discharges, Uncured	Removed to Agnews	Deaths	Returned Escapes	Escapes	Number Resident at Close of Each Year	Increase	Decrease	Whole Number Treated	Per Cent of Recoveries to Admissions	Per Cent of Deaths on Number Treated
Nov. 15, 1875, to July 1, 1876. July 1, 1876, to July 1, 1877. July 1, 1877, to July 1, 1877. July 1, 1878, to July 1, 1878. July 1, 1879, to July 1, 1879. July 1, 1880, to July 1, 1880. July 1, 1880, to July 1, 1881. July 1, 1881, to July 1, 1882. July 1, 1882, to July 1, 1883. July 1, 1883, to July 1, 1884. July 1, 1884, to July 1, 1886. July 1, 1885, to July 1, 1886. July 1, 1885, to July 1, 1886. July 1, 1886, to July 1, 1887. July 1, 1887, to July 1, 1888. July 1, 1888, to July 1, 1889. July 1, 1888, to July 1, 1889. July 1, 1888, to July 1, 1889.	321 451 433 615 572 563 543 463 500 479 346 363 353 401 296	69 140 148 184 189 133 125 127 130 119 80 95 86 114	20 71 1133 163 122 161 174 177 155 121 146 126 95 84	177	20 49 70 104 91 124 107 112 90 110 113 98 117 138 103	3	4 4 11 8 4 2 3 5 5 6 11	208 395 528 714 839 1,021 1,172 1,219 1,319 1,409 1,454 1,469 1,349 1,344	208 187 133 186 125 182 151 47 100 90 27 18 15	120	321 659 828 1,143 1,286 1,402 1,564 1,635 1,719 1,798 1,755 1,799 1,809 1,873 1,645	21.49 31.04 34.11 29.91 31.29 23.62 27.43 26.00 24.84 23.12 26.17 24.22 28.17 35.81	6.23 7.43 8.45 8.22 7.08 8.84 6.85 5.24 6.12 6.43 6.43 6.47 6.94 6.26

TABLE I.

Showing the counties from which four hundred and one patients were admitted, from July 1, Issa, to July 1, 1888, to July 1, 1888, to July 1, 1889.

Counties.	Males.	Females.	Total.
Alameda	8	2	1
Butte	1		<b>∮</b>
Colusa	3	1	1 .
Contra Costa	10	2	1
Del Norte	1		۱ ۱
Humboldt	9	4	1
Kern	1		ı j
Lake	1		1 ]
Los Angeles	·	2	1
Marin	1	1	1
Mendocino	7	4	ĺ
Modoc	1		]
Napa	15	9	2
Placer	١	3	-
Plumas	1	1	1
Sacramento	6	4	10
San Benito	2	ll	١ أ
San Bernardino	3	3	۱ (
San Diego	3	2	' (
San Francisco	117	į 7 <u>8</u> į	198
San Luis Obispo	5	1	۱ (
San Mateo	2	1	1 (
Santa Barbara	6	2	1 8
Santa Clara.	7	7	1
Santa Cruz	5	1	! (
Shasta	1	1	1 :
Sierra	1	[	· 1
Siskiyou	1	1	1 5
Solano	15	4	19
Sonoma	9	6	1,5
Tehama	2	1	1 '8
Trinity	2		1 1
Tulare	1	[	( 1
Ventura	4		ț <del>4</del>
Yolo'	2	4	(
Yuba	·	8	1 8
Totals	258	148	401
_	1	i I	1

TABLE II.

1889.	-		
Nativity.	Maies.	Females.	Total.
United States.		T	
California	43	23	66
Connecticut	ĩ	ĩ	2
District of Columbia	1		ī
Illinois	5	2	7
Indiana	5 3 2	$\bar{2}$	5،
Iowa	2	1	3
Kansas Kentucky		1 1	1
Maine	6	l i	
Maryland	ĭ		i
Massachusetts	5	3	8
Michigan	1	3	4
Minnesota	i	1	1
Mississippi	3	4	17
New Jersey	1	*	1
New York	15	11	26
North Carolina	2	1	3
0hio	4	$\frac{2}{1}$	6
Oregon		1	66 2 1 7 7 5 3 1 1 7 7 1 8 4 1 1 26 8 6 1 1
Rhode Island	1 0	1	9
Pennsylvania Tennessee	8	1	1
United States	8	6	14
Vermont	8 3	2	5 4
Virginia	2	$\frac{\overline{2}}{2}$	
Wisconsin	3		5
Utah Territory		1	1
Totals	120	72	192
Foreign Countries.		<u></u> -	
· ·		_	_
Austria	$\frac{1}{3}$	1	2 3 1 1 8 1 8 2
Azores Islands	1		' 3 1
Belgium Bohemia	i		i
Canada	7	1	8
Chili		1	1
China	8		8
Denmark	2		. 2
England Finland	10	7	17 3
France	2 8	2	10
Germany	23	8	. 31
Holland	1		1
treland	27	38	65
Isle of Man		1	1 3 1 2 2 2 2 9
Italy	3 1	[	5 1
Japan	2		2
Mexico	ĩ	1	2
New Brunswick	ī	1	$ar{2}$
Norway	6	3	9
Nova Scotia		1	1
Poland	1	1	1
PortugalPrussia	1 1	1	$\begin{array}{c} 1\\2\\1\\1\end{array}$
Russia		1	î
Scotland	3		3
Spain	1		1
Sweden	4	4	8
Switzerland	4	$\frac{1}{2}$	3 1 8 5 12
Unknown	10	1	12
Wales			
Totals	133	76	209

# REPORT OF THE TRUSTEES OF THE RECAPITULATION.

NATIVITY.	Males.	Females.	Total.
United States	120 123 10	72 74 2	192 197 12
Totals	253	148	401

### TABLE III.

Showing the ages of four hundred and one patients at the time of their admission into the Asylum, from July 1, 1888, to July 1, 1889.

AGES.	Males.	Females.	Total.
Between 10 and 20 years_ Between 20 and 30 years_ Between 30 and 40 years_ Between 40 and 50 years_ Between 50 and 60 years_ Between 60 and 70 years_ Between 60 and 80 years_ Between 80 and 90 years_ Unknown	15 65 62 44 83 16 4 2 12	5 42 39 30 18 10 1 1	20 107 101 74 51 26 5 3
Totals	253	148	401

### TABLE 1V.

Showing the supposed causes of insanity in four hundred and one patients, as stated in commitments, from July 1, 1888, to July 1, 1889:

SUPPOSED CAUSES.	Males.	Females.	Total
Abortion		1	15
Business trouble	8		89
Change of life		3	3
Child birth		2	2
Death of relatives		4	4.
Disappointment in love	1	2	3.
Domestic trouble	1	9	10
Epilepsy		2	9;
Fright		1 2 1	2
Hereditary		8	16
Ill health		4	5
Injury to head		3	148
Intemperance		3	21
Masturbation		l il	32
Old age		ī	32
Over study			2
Paralysis			1
Puerperal condition		1	1,
Religion	5	13	18
Spiritualism			39
Sunstroke	ī		19
Suppressed menstruation		5	5
Syphilis		. ř	19
Unknown		74	212
Use of morphine		! 'i	18
Uterine trouble		6	6
O VOLUME VACUATION			
Totals	253	148	401

### TABLE V.

Showing the class of insanity of four hundred and one patients, as stated in commitments, from  $July\ 1,\ 1888,\ to\ July\ 1,\ 1889.$ 

CLASS.	•	Males.	Females.	Total.
Dementia Mania Melancholia Monomania Puerperal mania Senile dementia Unknown		20 144 20 12 2 55	8 80 24 4 5 27	28 224 44 16 5 2 82 401

### TABLE VI.

Showing the civil condition of four hundred and one patients admitted from July 1, 1888, to July 1, 1889.

Civil Condition.	Males.	Females.	Total.
Divorced	3	3	6
Married	52	74	126
Single	173	50	223
Unknown	17	4	21
Widows		17	17
Widowers	8		8
Totals	253	148	401

### TABLE VII.

Showing the occupation of four hundred and one patients admitted from July 1, 1888, to July 1, 1889.

OCCUPATION.	Males.	Females.	Total.	
Agents	. 2		9	
Barbers	. 5		î	
Barkeepers	2		ì	
Blacksmiths	1		ì	
Boilermakers	1		i	
Bookkeepers	. 4		ā	
Brewers 1	1		i	
Butchers	1		i	
Carpenters	6		Ê	
Clerks	. 5			
Cooks	. 3	1	4	
Coopers	Ĭ		i	
Dairymen	$\bar{2}$		2	
Domestics	_	26	26	
Engineers	3		3	
Farmers	23		23	
Gardeners				
Housewives	1	75	75	
Laborers Laundrymen Lawyers Machinists	95	) "	96	
Laundrymen	i ž		2	
Lawyers	2		2	
Machinists	$\bar{2}$		2	
Merchants	1 7		7	
Miners	3		. 3	
No occupation	27	30	57	
Painters	3	}	- 3	
Peddlers	ĭ		ì	
Physicians	$\hat{\mathbf{j}}$		2	
Plasterers	1 1		ī	
Plumbers	i		i	
Sailors	14		14	
Seamstresses	14	5	5	
	1	6	7	
	ì	j ,	i	
Sheepherders	3			
Shoemakers Students	1 1	1	9	
m ::	1		í	
	3	2	Î	
Teachers		2	ĺ	
Tinsmiths		2	17	
Unknown		2	1	
Upholsterers	. 1			
Waiters	. 4			
Totals	253	148	401	

### TABLE VIII.

showing the cause of death of one hundred and thirty-eight patients, from July 1, 1888, to July 1, 1889.

	July 1, 1889	•			
Month.	Cause of Death.	Nativity.	Age.	Male	Female
July, 1888 July, 1888	Manigool exhaustion	Ireland	32 27	1	<u>i</u>
July, 1888 July, 1888 July, 1888 July, 1888 July, 1888 July, 1888	Epilepsy Paralysis Inanition	California	18	1	
July, 1888	Paralysis	England	56	1	
July, 1888	Exhaustion	California		1 1	
July, 1000	Enilepsy	United States Pennsylvania	41	i	
		British America		ī	
Inly, 1888	Exhaustion	New York	62		1
	Organic diseases of brain	Ireland	52	1	
July, 1888 July, 1888	Pieurisy	Ireland	38		1
July, 1888	Maniacal exhaustion	IrelandEngland	23 27		1 1
August, 1888	General paresis	Germany	52	1	
August, 1888	Dysentery	Germany Missouri	38	1 7	
August, 1888	Abscess of brain	New York	36	1	
August, 1888	Paralysis	Maine	39	1	
August, 1888 August, 1888	Consumption Dropsy General paresis	Ireland	38 38	1 1	
August, 1888	General naresis	Norway	47	i	
August, 1888	Consumption	Norway Switzerland	40	l î	
August, 1888 August, 1888 August, 1888	Apoplexy Consumption	Switzerland	25	1	
August, 1888 August, 1888	Consumption	Wales	28	1	
Rentember 1989	Exhaustion	Ireland	37 42	$\begin{vmatrix} 1\\1 \end{vmatrix}$	
September, 1888 September, 1888	Exhaustion Exhaustion	China	63	· i	
September, 1888	Organic disease of brain	Germany	34	l i	
· September, 1888	General paresis		41	1	
September, 1888	Organic disease of brain Paralysis	Indiana	17		1
September, 1888	Paralysis	Germany United States	56		1
September, 1888 September, 1888	Epilepsy Organic disease of brain	Switzerland	28 42	1	<u>i</u>
September, 1888.	Exhaustion	Austria	28	1	-
September, 1888	Old age	New Hampshire	80	ī	
September, 1888	Old age Organic disease of brain	Ireland	49	1	
September, 1888	Organic disease of brain	France	61	1	
September, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888 October, 1888	Consumption Organic disease of brain	South Carolina New York Denmark	37 73	1 1	
October, 1888	Paralysis	Denmark	59	. 1	
October, 1888	Paralysis Organic disease of brain	Germany	45	i	
October, 1888	Paralysis	Ireland	38	1	
October, 1888	Cancer	Scotland	46		1
October, 1888	Paralysis	Missouri England	32 51	1 1	
October, 1888	Maniacal exhaustion Organic disease of brain	Newfoundland	48	i	
October, 1888	Exhaustion	California	18	î l	
October, 1888	Exhaustion	Germany Germany	48		1
October, 1888	Organic disease of brain	Germany	27 29	1 1	
October, 1888	Epilepsy Exhaustion	California France	45	1	
, uctoper, 1888	Concussion of brain	Ireland	61	ī	
October, 1888	Consumption	California	25		1
October, 1888	Paralysis	Germany	78	1	
October, 1888 November, 1888	Exhaustion	Connecticut New York	69   71	1 1	
November, 1888	Organic disease of brain	Ireland	38	1	i
Norombon 1000	Dysentery	Maine	40	i	
November, 1888_ November, 1888_ November, 1888_ November, 1888_ November, 1888_ November, 1888_ November, 1888_	Paralysis	France	41	1	
November, 1888	Maniacal exhaustion	Vermont	62	1	5
November, 1888.	Paralysis	Germany	52		1
November, 1888	Paralysis Old age Organic disease of brain	Maryland	54 86	1	1
November, 1888	Organic disease of brain	Vermont	67		
	Dysentery Exhaustion	Germany	šo	1	
November, 1888	Exhaustion	China	50	1	

# TABLE VIII—Continued.

Month.	Cause of Death.	Nativity.	Age.	Маlе	Female.
December, 1888	Paralysis	France	43		
December, 1888	Paralysis		35	ļ	
December, 1888	Blood poisoning	Maine	62	1	
December, 1888	Old age	Ireland	71	<b>-</b>	
December, 1888	Old age	Germany	74		İ
December, 1888	Organic disease of brain	New York	53 55	$\frac{1}{1}$	
December, 1888	Paralysis	Ohio Michigan	70	i	
December, 1888 December, 1888	Exhaustion General paresis	United States	44	_	
January, 1889	Consumption	China	26	1	[
January, 1889	General paresis		53	ī	
January, 1889	Exhaustion		59	1	
January, 1889	Epilepsy	Germany	<b>4</b> 8	1	
January, 1889	Suicide		44	1	
January, 1889	Organic disease of brain	Ireland	40		
January, 1889	Congestion of liver		64		
January, 1889	Consumption	Texas	40		
January, 1889	Exhaustion	Germany England	84	1	
January, 1889		England	$\begin{array}{c} 72 \\ 32 \end{array}$	1	
January, 1889	Consumption	Japan	34	1 1	
January, 1889	Consumption Organic disease of brain	China United States	5 <del>4</del> 58	1	
January, 1889	Paralysis	Unknown		1	
January, 1889 January, 1889			34	_	
January, 1889	Organic disease of brain	New York	60	1	
January, 1889	Organic disease of brain		52	ī	
January, 1889	Consumption		38	1	
January, 1889	Exhaustion		19		}
February, 1889	Organic disease of brain			1	
February, 1889	Exhaustion		32	<del>-</del>	
February, 1889	Consumption	Germany	31	1	
February, 1889	Consumption	Ireland	43		l
February, 1889	Consumption	United States	28	1	
February, 1889	Epilepsy	Ireland	40	1	
February, 1889	Inanition		27		
February, 1889	Exhaustion		81 38	1 1	
February, 1889	Organic disease of brain Consumption		42	i	
February, 1889	Exhaustion	Unknown	12	i	
March, 1889	Exhaustion	Maine	31	î	
March 1889	Exhaustion		60		
March, 1889 March, 1889	Consumption		43	1	
March, 1889	Consumption	Sweden	26		
March, 1889	Consumption	Ireland	27		i
March, 1889 March, 1889	Organic disease of brain	England	58	1	
March, 1889	Consumption	Ohio	47	1	
March, 1889	Epilepsy	California	32	1	
March, 1889	Organic disease of brain	Ireland	61	1	
April, 1889	General paresis	France	51 78	<u>i</u> -	
April, 1889 April, 1889	Pericarditis		38	i	
April 1990	Consumption		64	i	
April, 1889	Consumption	Germany	26	î	
April, 1889 April, 1889	Suicide	Germany	47	īì	
May, 1889	Exhaustion	Maine	33	1	
May. 1889	Consumption	Portugal	35	1	
May, 1889	Old age	Ireland	77	1	
May, 1889	General paresis	Germany	44	1	
May, 1889	Apoptexy	Ireland	66		
May, 1889	Organic disease of brain	North Carolina	70	1	
May, 1889	Exhaustion	Tennessee	53	1	
May, 1889 May, 1889	Paralysis	Germany	63	1 1	
May 1990	Exhaustion	Portugal	50	1	
May, 1889	Consumption	IrelandIllinois	44 42	1	
May, 1889 May, 1889	Consumption	China	36	i	
May, 1889	Marasmus	United States	45	i l	
June. 1889	Consumption	Canada	48	i l	
,				- 1	

# TABLE VIII-Continued.

MONTH.	Cause of Death.	Nativity.	Age.	Male	Female
June, 1889 June, 1889 June, 1889 June, 1889 June, 1889	Exhaustion Organic disease of brain Organic disease of brain Exhaustion Cerebral congestion	Ohio Illinois Unknown Ireland Ireland	58 35 47 59 30	1 1 1	1

# TABLE IX.

Recapitulation of the causes of death of one hundred and thirty-eight patients, from July 1, 1888, to July 1, 1889.

CAUSE OF DEATH.	Males.	Females.	Total.
Apoplexy	,	1	1
Consumption	21	5	26
Dysentery Epilepsy	3		3
Epilepsy	. 8	]	8
Exhaustion	. 20	6	26
General paresis	6	2	8
Heart disease	1		1
Maniacal exhaustion	. 2	3	5
Old age	3	2	5
Organic disease of brain	21	4	25
Paralysis	9	5	14
All other causes	11	5	16
Totals.	105	33	138

### STATEMENT

Showing the number of articles made in the sewing-room from July 1, 1888, to July 1, 1889.

Articles.	Numbe
Aprons	1,3
ApronsBath towels	3
Bedticks	
Brown sheets	1,5
Bed napkins	11
Chemise	6
Canvas mats	
Counterpanes	1
Cotton flannel shirts	40
Camisoles	1
Drawers	
Dresses	
Flannel skirts	2
Linen tablecloths	
Mattress ticks	
Nightgowns	29
Pillowslips (check)	6
Pillowslips (white)	
Roller towels	
Sacques	
Shrouds	
Skirts	12
Shirts	11
Sunbonnets	21
Waterproof capes	
White sheets	, 7

# STEWARD'S REPORT.

#### TABLE FIRST.

Amount of articles purchased and consumed, and other expenses, for the fiscal year ending June 30, 1889.

ARTICLES.	Value.
Flour	\$10,034
Meat	34,892
Sugar	3,534
Tea	1,256
Syrup	1,612
Potatoes	2,235
Butter	8,190 1
Coffee and chicory	3,275
Lard	54 4
Fish	673 3
Poultry and eggs	3,951
Beans	979 8
Rice and cracked wheat	1,431 5
ornmeal and oatmeal	1,129 4
ruit	625 4
dalt	158 3
linegar and pickles	252 9
mall groceriesoap	888
08.P	1,723
rugs	1,305 1
iquor and ale	389 8
ory goods	1,125 { 4,516 4
lothing and hats	4,624
hoes and leather	2,356 5
llankets	156 5
urniture and crockery	385 8
lardware and tinware	999 2
poons and cutlery	65 2
arpeting	823 8
arpeting rain and feed	1,138 7
arden tools and seed	420 (
amber	642 5
depairs	382 3
Brooms and brushes	444 (
looks and stationery	68 5
88	3,662 6
aints, oil, and glass	647 (
'uel	16,934 8
edding	93 4
astings, pipe, and ironayroll	505 3
ayroll	85,135
eturned escapes	169 9
vischarged patients	306 3
rustees' services and mileageelegraphing, telephoning, postage, freight, and expressage	688 2
elegraphing, telephoning, postage, freight, and expressage	625 9
dyertising	125 5
ule hav	300 G 339 6
onble-gear drill	50 0
ouble-gear drill- ransfer of patients to Agnews Asylum	561 8
arness	26 0
art	32 5
abor	77 7
ewing machines	105 (
wing machinesxpense of patients to circus	21 (
ire hose	165 (
lire hose	1,005
Total	\$208,322 8

#### TABLE SECOND.

1,398

**\$571** 39

Yearly averages

# Showing the cost of the different departments for the fiscal year ending June 30, 1889.

### TABLE FOURTH.

Products of the farm, garden, and dairy, for the fiscal year ending June 30, 1889.

	<u> </u>			7	2 Towards of the farms, garacis, and davig, for the freeze generally	T
DEPARTMENTS.				Cost,	ARTICLES.	Amount
Kitchen and dining-room				\$64.794	pples, pounds	5,96
Wards				15 027	pricots, pounds	
Bakery				10, 239	monds, pounds	
Laundry				1 014	amonus, pounds	
Engine-room				1,014	paragus, pounds	84
Farm, garden, dairy, and stable				1 055	by (table) nowed	12 0
Frustees' salaries					ets (table), pounds	12,07 143,28
Repairs					ets (cow), pounds	7 07
					ans, pounds	
Drug store				1,515	bbbage, pounds	
Center building					rrots, pounds	
Office				700	herries, pounds	. 97
Payroll				85,135	prants, pounds	:
Returned escapes			, <b></b>	169		.1 88
Discharged patients				200	mm foddon nounda	140.00
Fuel				16 795	elery, pounds	.1 4.34
Gas				2 669	uliflower, pounds	5,92
Coombs ranch				3,002 (	hickens, dozen	
				110	Marketis, UOZEII	-
Tin shop				285	neks	. 86
Night watch				43 1	ggs, dozen	
Advertising				300 (	gs, pounds	40.00
Miscellaneous				1,164 8	rapes, pounds	42,92
Blacksmith shop				324 2	hoseberries, pounds	1 6
Transferring patients to Agnews	. <b></b>	- <b>-</b>		561.9	Hay, tons	.  50
					Lettuce, pounds	4,12
Total			i	\$208,322 8	Milk, gallons	. 26,44
100000000000000000000000000000000000000				\$200,022 q	Melons	
<del></del>					Nectarines, pounds.	680
				J	Okra	46
					Oniona manual da	26,77
				"	Onions, pounds	20,11
					Dyster plant, pounds	1
TABLE TH	HKD.				Parsley, pounds	0.95
*					Potatoes (sweet), pounds	2,35 86
Averages for the fiscal year	ending Jur	ve 30, 1889.	,	;	Parsnips, pounds.	
		<del>, - · · · · · · · · · · · · · · · · · · </del>			Peppers, pounds	95
	OF	≻			Pease, pounds	1,53
	∺.8	6.6	¥6	86	Plums, pounds	1.32
	Pa	Average penses	[ P. 2	Average Capita	Peaches, pounds	. 3.32
	E.%	200	£0,5	# # # # # # # # # # # # # # # # # # #	Quinces, pounds	. 5
Months.	l g	l ë	ש" ש	1 7 1	Rhubarb, pounds	_  21
	Number nts Daily	, E	Average Cost Capita per D	Cost per M	Raspberries, pounds	46
	l õe	aily	UA	Kặ Ì	Best has no rounds	2,04
	E B			per	Radishes, pounds	
	<del>[</del> ]8	Ex	per	1 5 6 1	Mrawberries, pounds	36
					Squash, pounds	
	1	1	1		Tomatoes, pounds	20,13
888July	1,461	\$541 28 I	\$0 37	\$11 4	Turnips, pounds	23,41
August	1,475	529 72	35-8	.   11 🗓	Pork sold	\$30 \$35
September		549 26	$37\frac{10}{10}$	. 11 塊	Cows and calves sold	.  \$35
October		556 32	$37\frac{10}{10}$	11 75		1
November	1,405	629 42	2170	13 47		· · · · · ·
Dogombor			44 10	13 82		
December	1,406	627 32	$44\frac{6}{10}$			
889—January	1,410	614 46	$34\frac{16}{10}$	13 51	0.11	
February	1,366	652 10	47-7	13 361		
March	1.315	545 84	$47\frac{7}{10}$ $41\frac{7}{10}$	12 87		
April	1.319	584 77	44.3	13 29		
May	1,334	511 31	20 3	11 87		
June	1,348	514 90	0010	11 46		
V U.AC	ı ±,044⊘ l	014 9U	0 <del>0√</del> 6	1 "3		

# REPORTS JULY 1, 1889, TO JULY 1, 1890.

# RESIDENT PHYSICIAN'S REPORT.

#### TABLE I.

Showing the counties from which two hundred and ninety-six patients were admitted, from July 1, 1889, to July 1, 1890.

Counties.	Males.	Females.	Total
Alameda	4	7	
Amador	_	l i	ļ*
Butte		l ī	
Colusa	4	1	
Contra Costa	Ŝ	ì	1
Del Norte	1	_	
Fresno	i	1	
Humboldt	5	l î	1
	2	1 1	ł
Lassen.	4	9	·
Los Angeles	*	ĭ	ì
Marin	<del></del>	1	
Merced	6	1 1	
Mendocino	9	3	(
Napa	4		1
Placer	ī	1	
Plumas	10	3	1
Sacramento		1	1
San Bernardino	5	2	
San Diego	73	58	1
San Francisco	15	1 00	1 1
San Joaquin	3	4	
Santa Barbara	1 -	4	
Shasta	1 7		
Siskiyou	4		
Solano	11	1	
Sonoma		4	
Tehama	9	<b></b> -	1
Ventura		1	ļ
Yolo	5	<u>-</u> -	
Yuba	2	1	1 _
Totals	190	106	2

### TABLE II.

Showing the nativity of two hundred and ninety-six patients admitted from July 1, 1889, to July 1, 1890.

July 1, 1890.			
NATIVITY.	Males.	Females.	Total.
United States.			
Arkansas		. 2	2
California	25	14	2 39
Connecticut	1		1
Delaware	1		1 1 6 4 3 1 2 3 1 6 2 1
Florida	1 4		1
Illinois Indiana	2	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	6
Iowa	2	1	9
Kansas	$\frac{1}{2}$		ĭ
Kentucky	2		$ar{2}$
Maine	2	[ 1	3
Maryland	1		1
Massachusetts Michigan	3 1	3 1	6
Minnesota		1	1
Missouri	1	3	4
New Hampshire	1		1 1
New Jersey		1	1
New York	7	9	16
OhioOregon	6	1	7
Pennsylvania	4		7 1 4 6 2 20
Tennessee	6		6
Texas	i	1	ž
United States.	10	10	20
Vermont	2	2	4 4 5
Virginia Wisconsin	2 3	$\frac{\bar{2}}{2}$	4
Wisconsin	3	2	
Totals	90	58	148
Foreign Countries.			
Australia	1		1
Australia Austria	1		1
Australia	1 1		1 1
Australia Austria Azores Islands British Columbia	1 1 1	9	1 1 1
Australia	1 1 1 4	2	1 1 1
Australia Austria Azores Islands British Columbia Canada China	1 1 1 4 6		1 1 1 6 6
Australia Austria Azores Islands British Columbia Canada China Denmark Brigland	1 1 1 4 6 3 8	2	1 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark England France	1 1 1 4 6 3 8	1 4 1	1 1 6 6 4 , 12
Australia Austria Azores Islands British Columbia Canada China Denmark Rangland France Germany	1 1 1 4 6 3 8	1 4 1 9	1 1 1 6 6 4 . 12 7
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland	1 1 4 6 3 8 6 20	1 4 1 9	1 1 6 6 4 . 12 7 29
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland	1 1 1 4 6 3 8 6 20	1 4 1 9	1 1 6 6 4 . 12 7 29 1 44
Australia Austria Azores Islands British Columbia Canada (China Denmark England France Germany Holland Ireland	1 1 1 4 6 3 8 6 20	1 4 1 9	1 1 6 6 4 . 12 7 29 1 44 2
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland Japan Mexico	1 1 1 4 6 3 8 6 20 19 2 1	1 4 1 9	1 1 6 6 4 . 12 7 29 1 44 2
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland Italy Japan Mexico Mew Brunswick	1 1 1 4 6 3 8 6 20 19 2 1	1 4 1 9	1 1 6 6 4 . 12 7 29 1 44 2 1 2
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland July Japan Mexico New Brunswick New Mexico	1 1 4 6 3 8 6 20 20 21 2	1 4 1 9	1 1 6 6 4 . 12 7 29 1 44 2 1 2
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland Italy Japan Mexico New Brunswick New Mexico New Zealand	11 14 66 38 66 20 19 2 1 2 1	1 4 1 9	1 1 1 6 6 4 . 12 7 29 1 44 2 1 2 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark Bennark Brance Germany Holland Ireland Italy Japan Mexico Mew Brunswick New Mexico New Zealand Norway	1 1 4 6 3 8 6 20 20 21 2	1 4 1 9 1 25	1 1 6 6 4 . 12 7 29 1 44 2 1 2 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland Altaly Japan Mexico New Brunswick New Mexico New Zealand Norway Nova Scotia	1 1 4 6 3 8 6 20 19 2 1 2 1 1	1 4 1 9	1 1 6 6 4 . 12 7 29 1 44 2 1 1 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark Rance Germany Holland Ireland Italy Japan Mexico New Brunswick New Mexico New Mexico New Zealand Norway Nova Scotia Poland Poland	1 1 1 4 6 3 8 6 20 20 1 1 1 1 1 1	1 4 1 9 1 25	1 1 6 6 4 . 12 7 29 1 44 2 1 1 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Iteland Iteland Austrico New Brunswick New Mexico New Zealand Norway Nova Scotia Poland Portugal Prussia	1 1 1 4 6 3 8 6 20 19 2 1 2 1 1 1	1 4 1 9 1 25	1 1 6 6 4 . 12 7 29 1 44 2 1 1 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Iteland Italy Japan Mexico New Brunswick New Mexico New Brunswick New Mexico New Scotia Poland Portugal Prussia Randwich Islands	1 1 1 4 6 3 8 6 20 19 2 1 1 1 1 1 2 1	1 4 1 9 1 25	1 1 1 6 6 4 2 2 1 2 1 1 1 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark Ragland France Germany Holland Iteland Iteland Italy Japan Mexico New Brunswick New Mexico New Mexico New Zealand Norway Nova Scotia Poland Portugal Prussia Randwich Islands Sweden	1 1 1 4 6 3 8 6 20 21 1 2 1 1 1 1 1	1 4 1 9 1 25	1 1 1 6 6 4 2 2 1 2 1 1 1 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Irland Italy Japan Mexico New Brunswick New Mexico New Zealand Norway Nova Scotia Poland Portugal Prussia Sandwich Islands Sweden Switzerland	1 1 1 4 6 3 8 6 20 19 2 1 2 1 1 1 1	1 4 1 9 1 25	1 1 6 6 4 4 2 2 1 1 1 1 1 1 1 2 1 7 2 1 1 2 1 2 1 2
Australia Austria Azores Islands British Columbia Canada China Denmark Ragland France Germany Holland Iteland Iteland Italy Japan Mexico New Brunswick New Mexico New Mexico New Zealand Norway Nova Scotia Poland Portugal Prussia Randwich Islands Sweden	1 1 1 4 6 3 8 6 20 19 2 1 1 1 1 1 2 1 2 1 7	1 4 1 9 1 25	$egin{array}{c} 1 \\ 1 \\ 6 \\ 6 \\ 4 \\ 4 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 3 \\ 1 \\ 7 \\ 2 \\ 8 \\ \end{array}$
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland Litaly Japan Mexico Mew Brunswick New Mexico New Zealand Norway Nova Scotia Poland Portugal Prussia Sandwich Islands Sweden Syntzerland Unknown Wales	1 1 1 4 6 3 8 6 20 19 2 1 2 1 1 1 1	1 4 1 9 1 25	1 1 6 6 4 4 2 2 1 1 1 1 1 1 1 2 1 7 2 1 1 2 1 2 1 2
Australia Austria Azores Islands British Columbia Canada China Denmark England France Germany Holland Ireland Altaly Japan Mexico New Brunswick New Mexico New Brunswick New Mexico New Scotia Poland Portugal Prussia Pandu Sweden Switzerland Switzerland	1 1 1 4 6 3 8 6 20 19 2 1 1 1 1 1 2 1 2 1 7	1 4 1 9 1 25	$egin{array}{c} 1 \\ 1 \\ 6 \\ 6 \\ 4 \\ 4 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 3 \\ 1 \\ 7 \\ 2 \\ 8 \\ \end{array}$

#### RECAPITULATION.

NATIVITY.	Males.	Females.	Total.
United States Foreign countries Unknown	90 93 7	58 47 1	148 140 '8
Totals	190	106	296

#### TABLE III.

Showing the ages of two hundred and ninety-six patients at the time of their admission into the Asylum, from July 1, 1889, to July 1, 1890.

Ages.	Males.	Females.	Total.
Between 10 and 20 years Between 20 and 30 years Between 30 and 40 years Between 40 and 50 years Between 50 and 60 years Between 60 and 67 years Between 70 and 80 years Unknown	5 43 50 48 22 14 3 5	5 21 36 19 16 6 2	10 64 86 67 38 20 5
Totals	190	106	296

#### TABLE IV.

Showing the supposed causes of insanity in two hundred and ninety-six patients, as stated in commitments, from July 1, 1889, to July 1, 1890.

SUPPOSED CAUSES.	Males.	Females.	Total,
Business trouble	5	2	ĺ
Change of life		5	Ď.
Child birth		5	54
Death of relatives		3	3
Disappointment in love	1	i	9
Domestic trouble	4	4	8
Epilepsy	5	3	8
Hereditary	13	5	18
Ill health		ž	2
Injury to head			99
Intemperance	16	6	22
Masturbation		Ĭ	18
Over study		ī	Q
Paralysis		1	1
Religion		1 3	5
Spiritualism		ĭ	3
Sunstroke		<u> </u>	i i
Suppressed menstruation		3	. 3
Syphilis	2	2	4
Unknown	108	$5\tilde{2}$	160
Use of opium		1 1	
Uterine trouble	l	<u> </u>	6
Totals	190	106	296
		200	

#### TABLE V.

Showing the class of insanity of two hundred and ninety-six patients, as stated in commitments, from July 1, 1889, to July 1, 1890.

CLASS.	Males.	Females.	Total.
Dementia Mania Melancholia Monomania Puerperal mania Senile dementia Unknown	93 16 7 2 49	4 56 12 2 3 1 28	27 149 28 9 3 3 77

#### TABLE VI.

Showing the civil condition of two hundred and ninety-six patients admitted from July 1, 1889' to July 1, 1890.

Civil Condition.	Males.	Females.	Total.
Divorced Married Single Unknown Widows Widowers	2 41 123 23	5 66 24 1 10	7 107 147 24 10
Totals	190	106	296

TABLE VII.

Showing the occupation of two hundred and ninety-six patients admitted from July 1, 1889, to July 1, 1890.

5 aty 1, 1000.			
Occupation.	Males.	Females.	Total,
Agents	2		2
Architects	1		13
Artists	1		1)
Bakers	1		1,
Barkeepers	3		33
Butchers	3		39
Carpenters	3		. 34
Clerks	9		9
Cooks	5		5
Coopers	1		ij
Domestics		5	5
Engineers	3		. 3
Farmers	21	1	22
Gardeners	1		Į.
Harnessmakers	2		2
Hotel keepers	4		
Housewives		73	73
Laborers	72		72
Laundrymen	1		1
Machinists	1		4
Merchants	2		, ,
Miners	1		.
No occupation	14	17	31
Painters	7		#
Plasterers	2		3
Plumbers	2		2
Plumpers	5		.5
SailorsSeamstresses	l	4	4
Seamstresses	4	<b>2</b>	6
Servants	$\bar{1}$		1
Shoemakers	1		1
Stone cutters	l	1	1
Students	1		1
Tailors	1	1	1
Teachers	14	$\overline{2}$	16
Unknown	2	L	1 2
Upholsterers			<b> </b>
Totals	190	106	296

# TABLE VIII.

Showing the cause of death of one hundred and three patients, from July 1, 1889, to July 1, 1890.

Morray	Course of Dooth	No stanting		Male	Female
Month.	Cause of Death.	Nativity.	Age.	3	ale
July, 1889	Exhaustion	Ireland	60	· ·	1
July, 1889 July, 1889 July, 1889 July, 1889	Exhaustion	Massachusetts	62	1	
July, 1889	Consumption	Norway	41		1
July, 1889	Epilepsy	California	23	1	
JULY 1009	Organic disease of brain	Massachusetts	60	1	
August, 1889 August, 1889 August, 1889	Maniacal exhaustion	Ireland	26		1
August, 1889	Acute athropy of liver	Ireland	37	1	
August, 1889	Exhaustion	Ohio	58		1
August, 1889	Organic disease of brain	Scotland	51 44	1	
August, 1889	Organic disease of brain	England	50	1	
August, 1889 August, 1889	Organic disease of brain	Italy Germany	47	i	
August, 1889	Dysentery Exhaustion	Prussia	48		
August, 1889	Consumption	Scotland	41	ī	1
August, 1889	Consumption Organic disease of brain Organic disease of brain Organic disease of brain Organic disease of brain	Ireland	50		1
1	Organic disease of brain	Ohio	46	1	
August, 1889 August, 1889 August, 1889 September, 1889 September, 1889 September, 1889 September, 1889 September, 1889 September, 1889	Organic disease of brain	Ohio	65	1	
August, 1889	Cancer Organic disease of brain	Ireland	56	1	
August, 1889	Organic disease of brain	Austria	35	1	
September, 1889.	Organic disease of brain Dysentery Paralysis Consumption Organic disease of brain	Ireland	74		1
September, 1889	Paralysis	Pennsylvania		1	
September, 1889	Consumption	Germany	35	1	
September, 1889.	Organic disease of brain	Wisconsin	32 35	1	
September, 1889				1	1
September, 1889 October, 1889	Consumption Consumption Epilepsy Organic disease of brain Organic disease of brain	China Denmark		ì	
October, 1889	Enilones	New York		li	
October, 1889	Organic disease of brain	Italy	62	1	i 1
October, 1889	Organic disease of brain	Illinois		1	`l
October, 1889	Exhaustion	California	35		1
October, 1889	Paralysis	Virginia	48	1	
November, 1889	Paralysis Paralysis	France	51		. 1
November, 1889	Paralysis	Canada	47	1	
November, 1889	Organic disease of brain Organic disease of brain	Ohio	46	1	
	Organic disease of brain	Missouri	51	1	
November, 1889 November, 1889 November, 1889 November, 1889 November, 1889 November, 1889	Exhaustion	Italy	45		. 1
November, 1889	Pneumonia	Missouri New York	73 53	1	
November, 1889	Hemorrhage of lungs Old age Consumption Enteritis	France	78	1 1	
November, 1889	Consumption	France Missouri		.1	
November, 1889	Enteritie	Oregon	36	i	
December, 1889.	Maniacal exhaustion	Pennsylvania	41	l î	
December, 1889	Organic disease of brain	Rhode Island		ī	
December, 1889	Enilensy	California			. 1
December, 1889.	Tenanction	Colifornia	18	1	
December, 1889	Organic disease of brain Consumption Consumption Exhaustion	Connecticut	42	1	
December, 1889	Consumption	California	26	1	
January, 1890	Consumption	England	28	1	
January, 1890	Exhaustion	Ireland	40	1	
January, 1890	Pheumonia	Germany	42		. 1
January, 1890	Organic disease of brain	Germany	38	1	.]ī
January, 1890	Exhaustion	Massachusetts		1	-  -
January, 1890	Organic disease of brain	Ireland   Ohio		1 1	
January, 1890	Organic disease of brain	Ireland	53	i	
January, 1890 January, 1890 January, 1890 January, 1890	Exhaustion Consumption	Germany	1 47	l. *	1
January, 1890	Paralysis	Mexico .	55	1	·
January, 1890	Consumption  Consumption  Consumption  Organic disease of brain  Consumption  Organic disease of brain  Wariacal exhaustion	Mexico Ireland Finland California	42	1	
February, 1890	Consumption	Finland	39	1	
February, 1890	Organic disease of brain	California	. 21	1	
February, 1890	Consumption	Italy New York	47	1	
February, 1890	Organic disease of brain	New York	. 59		_ 1
			. 1 36	1	
February, 1890	Organic disease of brain Organic disease of brain	China	37	1 .1	
redruary, 1890	Organic disease of brain	Germany	. 30	1	

# . TABLE VIII—Continued.

Month.	Cause of Death.	Nativity.	Age.	Male	Female
March, 1890	General paresis.	Illinois.	42	1	
March, 1890	Organic disease of brain	Indiana	27	ī	
March, 1890	Paralysis	Ireland	56	ī	
March, 1890	Consumption	Canada	43	ī	
March, 1890	Exhaustion	Ireland	48		i
March, 1890	Exhaustion	Ohio	5ŏ	• 1	١ ٠
March, 1890	Exhaustion	Vermont	40	ī	
March, 1890	Epilepsy	Canada	46	î	
March, 1890	Epilepsy	Scotland	33	1 -	
March, 1890	Exhaustion	Ireland	44	1	
March, 1890	Maniacal exhaustion	Ireland	42	1	1
March, 1890	Paralysis	Alsace	50	1	'
	Consumption	Massachusetts	39		
March, 1890	Consumption	China	30	1	1 1
April, 1890			37	i	
April, 1890	Consumption Exhaustion	Germany	60		
April, 1890		Unknown	•	1	1 1
April, 1890	Consumption		47	1 1	
April, 1890	Anæmia	Massachusetts	52	1	}
April, 1890	Apoplexy	Virginia	36	i	
April, 1890	Consumption	Italy	66	i i	
April, 1890	Maniacal exhaustion	New Brunswick		1	
April, 1890	Heart failure	Washington	28		
May, 1890	Organic disease of brain	Greece	38	1	
May, 1890	Exhaustion	Virginia	41		1 4
May, 1890	Exhaustion	Illinois	19	1	
May, 1890	General paresis	Michigan	28		1 -
May, 1890	Exhaustion	Azores Islands	49	1	
June, 1890	Exhaustion	Indiana	40	1	
June, 1890	Organic disease of brain	Ireland	38	1	
June, 1890	Organic disease of brain		40	1	
June, 1890	Gangrene	Nova Scotia	60		1 .
June, 1890	Exhaustion	Illinois	33		1
June, 1890	Epilepsy	Iowa	28	1	
June, 1890	Consumption	Unknown		1	
June, 1890	General paresis	England	39	1	
June. 1890	Organic disease of brain	France	58	1	
June, 1890	Consumption	Ireland	53	1	
June, 1890	Organic disease of brain	France	43	1	I

### TABLE IX.

Recapitulation of the causes of death of one hundred and three patients, from July 1, 1889, the July 1, 1890.

CAUSE OF DEATH.	Males.	Females.	Total.
Consumption Epilepsy Exhaustion General paralysis Old age Organic disease of brain Paralysis All other causes Totals	11 2 1 2 1 24 6	4 2 9 1 3 1 6	2 9 2 11 10

## STATEMENT

Showing the number of articles made in the sewing-room, from July 1, 1889, to July 1, 1890.

ARTICLES.	Number
Aprons	9
Bath towels	
Bed ticks	
Brown sheets	2,38
Carpet mats	
Damisoles	
hemise	
Ootton flannel shirts	41
Counterpanes	24
Drawers	50
DressesDresses	
Plannel skirts	
inen table cloths	~
Mattress ticks	1
Vightgowns	
Pillow slips (check)	6
Pillow slips (white)	76
Pillow ticks	
Roller towels.	4
Bacques	
Shirts	
Shrouds	
kirts	
Suspenders	
Sun bonnets	1
Watarnrant canas	
Waterproof capes	10

# STEWARD'S REPORT.

### TABLE FIRST.

Amount of articles purchased and consumed, and other expenses, for the fiscal year ending June 30, 1890.

ARTICLES.	Value.
Flour	\$8,838
Meat	
Sugar.	
rea	
Syrup	
Potatoes	
Butter	
Dutter	
Coffee and chicory	113
Lard	1
Fish	- 040
Poultry and eggs	3,972
Deans	. 101
Rice and cracked wheat	1,267
Cornmeal and oatmeal	
Fruit	
Balt	153
Vinegar and pickles	213
Small groceries	1,033
Small groceriesSoap	1,202
Drugs	1,474
Liquor and ale	361
robacco	1,037
Dry goods	3,887
Clothing and hats	3,907
Shoes and leather	1,892
Blankets	1,454
Furniture and crockery	
Hardware and tinware	926
Spoons and cutlery	. 117
Carpeting	462
Grain and feed	1,154
Garden tools and seed	267
Lumber	. 1,344
Repairs	902
Brooms and brushes	529
Books and stationery	83
Gag	2.358
Paints, oil, and glass	1 899
Fuel	15,332
Bedding	473
Castings, pipe, and iron	844
Payroll	
Returned escapes	34
Discharged patients	417
Trustees' services and mileage	687
Telegraphing and telephoning	110
Postage, freight, and expressage	370
Ice	49
Advertising	275
Straw	_ 287
Wagon	1112
Hose cart and hose	. 390
Hereford bull	100
Repairing boilers, tanks, etc.	903
Repairing boilers, tanks, etc. Gas retorts, brick, clay, etc.	587
Miscellaneous	1,450
Total	\$196,312

### TABLE SECOND.

Showing the cost of the different departments for the fiscal year ending June 30, 1890.

DEPARTMENTS.	Cost.
Kitchen and dining-rooms	14,800 04
Bakery Laundry Engine-room	670 57 256 89
Farm, garden, dairy, and stable	687 50 5,920 38
Drug store Center building	928 95 610 82
Payroll Returned escapes Discharged patients	85,491 55 34 00 417 40
Fuel	15,228 44 2,358 87 215 05
Tin shop	300 69 331 86 45 08
Advertising Miscellaneous	275 00 1,195 15
Total	\$196,312 08

### TABLE THIRD.

Averages for the fiscal year ending June 30, 1890.

·	•			_
MONTHS.	Average Number of Patients Daily	Average Daily Expenses	Average Cost per Capita per Day	Average Cost per Capita per Month.
August	1,336 1,334 1,329 1,330 1.335	\$522 95 495 84 523 76 511 46 557 89 546 04 554 39 535 98 542 18 520 96 562 72 \$538 12	\$0 33 75 33 75 33 75 33 75 41 75 41 75 42 75 40 75 40 75 41 75 40 75 41 75 41 75 41 75 40 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41 75 41	\$12 00 11 84 11 61 11 75 12 57 12 68 12 95 12 18 12 46 12 10 12 06 12 33

# TABLE FOURTH.

Products of the farm, garden, and dairy for the fiscal year ending June 30, 1890.

Apticles.	Amount
Asparagus, pounds	28
Apples, pounds	34,00
Apricots, pounds	500
Blackberries, pounds.	78
Beets (table), pounds.	311
Beets (cow), pounds	50,25
Beans, pounds	1,10
Cabbage, pounds	46,19
Capillower nounds	58
Cauliflower, pounds	10.00
Carrots, pounds	10,640
Cherries, pounds	2,870
Currants, pounds.	320
Corn (green), dozen	166
Cucumbers, dozen	384
Celery, pounds	2,59
Chickens, dozen	1.
Ducks, number	(
Eggs, dozen	839
Figs, pounds	160
Grapes, pounds	60,000
Grapes, poundsGooseberries, pounds	40
Corn fodder, pounds	72,000
Hay, tons	128
Lettuce, pounds	
Milk, gallons	24,08
Melons	
Nectarines, pounds.	400
Onions, pounds	34,46
	9:
Parsley, pounds	488
Potatoes (sweet), poundsPoppers, pounds	416
reppers, pounds	
Pease, pounds	3.000
Plums, pounds	5,00
Peaches, pounds	2,800
Pears, poundsPrunes, pounds	2,000
Prunes, pounds	4(
Quinces, pounds	100
Quinces, pounds	2,56
Rhubarb, pounds	400
Raspberries, pounds	178
Rhubarb, pounds  Raspberries, pounds  Squash, pounds  Strawberries, pounds	4,976
Strawherries, nounds	26
Tomatues, pounds	19,229
Tomatues, pounds Turnips, pounds Cows and calves sold	11,91
Cows and calves sold	\$210 0
Pork sold.	\$1,651 2
Pork consumed, pounds	1,11
to its consumed, poulius	-,
Calves consumed, number.	

METEOROLOGICAL TABLE.
The following Table shows the Average Mean, Maximum, and Minimum; also, Highest and Lowest Temperature per Month, per Year, and from November 1886 to June 30, 1890; also, Reinfall for some some of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta

1876, to June 30, 1890; also, Rainfall for same period.	); also,	Rainfa	If for se	tine per	- 1	Observa	tions t	Observations taken three times daily, by	rree tin	res dai		W. H. 1	Martin,	, Pharmacist	macist.			
		•	July.	χ.					August	BT.				σά	September	BER.		
YEARS.	Average Mean	Highest	Lowest	Average Maximum	Average Minimum	Rainfall for Month	Average Mean	Highest	Lowest	Average Maximum	Average Minimum	Rainfall for Month	Average Mean	Highest	Lowest	AverageMaximum	Average Minimum	Rainfall for Month
1876-7						- 1			-									
1877–8	67.9	88	5	80.3	55.5	Ξ.	27.5	<b>%</b>	8		52.2		65.5	88		0.62	52.0	
1878-9	5.5	€:	8	77.0	62.0		5.5	8	48		53.2	ਰ :	9.19	8		74.3	48.9	1.49
1879-80	0.79	23:	48	75.1	52.9	-	67.9	83	8	_	52.8		68.3	88		0.22	49.7	
1880-1	4.59	œ	84;	74.2	52.6		62.2	<b>25</b>	3		20.5	-	61.5	8		74.4	18.6	
1881–2	- 00 00 00 00 00 00 00 00 00 00 00 00 00	30 %	<b>4</b> :	78.4 4.7	53.5	1	0.9	88	47	_	9.05	-	61.6	æ ;		74.2	49.1	.26
1883-4	3.89	88	# <del>4</del>	7.7	52.0	1	63.4 4.4	88	<del>2</del> 4		506	-	 	88		6.5	7.8 O. a.	
1884-5	- 66.0	8	8	80.1	51.9		62.8	328	139	76.2	49.4		58.0	<u> </u>	3	70.3	45.7	0.
1885-6	27.5	888	25	8. S	1.57		61.9	6	<del>3</del> 2		53.6		8.29	28	_	8.7	52.9	.07
1987_8	96	88	\$ <del>4</del>	5 <u>L</u>	50.1 7.05	-20	90.0	20 2	34		04.0		0.78	888		130	51.0	8
1888-9	86.1	56	19	76.1	24.1	_	65.9	5	3.5		0.42		. T. 55.	8 8		2,70	54.6	18
1889-90	0.89	<b>&amp;</b>	28	73.7	52.3		63.3		94		61.2	-	64.4	88		16.4	52.4	3 !
Averages	64.4			75.8	53.0	<u>6</u> .	63.4			75.0	51.8		62.8			74.6	51.0	.37

Averages

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

	Rainfall for Month	1.18 1.18 1.18 1.18 1.08 1.08 1.08 1.08	4.81
	Average Minimum	88.00 88.00 88.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 89.00 80 80 80 80 80 80 80 80 80 80 80 80 8	38.4
WBER.	AverageMaximum	57.4 55.0 55.0 55.0 55.0 54.3 55.9 55.9 55.9 55.9 55.9 55.9 55.9 56.9	53.0
DECEMBER	Lowest	***************************************	
	Highest	£\$\$\$52%\$\$\$\$\$\$\$\$	
	Average Mean	84444444444444444444444444444444444444	45.7
	Rainfall for Month	83.1.2 93.95 93.95 93.95 1.56 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 93.7 94.0 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 95.7 9	2.23
	Average Minimum	244244888888484848484848484848484848484	6.04
NOVEMBER.	AverageMaximum	22.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20	59.9
Nove	Lowest	8288888888888888	
	Highest	55888888884455	
Non	Average Mean	53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8 53.8	50.4
	Rainfall for Month	2.52 88. 88. 88. 11.69 11.69 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8. 52 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.36
HELEOROLOGICAL	Average Minimum	7.54 7.54 7.54 7.54 7.54 7.54 7.54 7.54	46.9
BER.	AverageMaximum	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	66.7
OCTOBER	Lowest	83338833	
	Highest	<b>28.88.52.24.58.48.28.28</b>	
	Average Mean	8888 8888 8888 868 868 868 868 868 868	56.8
	<b>Үвав</b> в.	1876-7 1877-8 1878-9 1878-9 1878-9 1881-2 1882-3 1882-4 1885-6 1885-7 1888-9	Averages

REPORT OF THE TRUSTEES OF THE

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	Highest	74	88	22	98	7	20	8	22	74	2	23	2	74	49	
	Average Mean	55.7	53.2	0.75	47.8	51.4	49.0	50.9	<u>8</u>	0.75	8.8	51,9	49.5	53.1	48.9	51.3
	Rainfall for Month	1.31	13.82	5.77	2.19	3.15	3,65	1.00	5.22	<b>1</b> 9:	.25	10.62	1.28	92:	6.36	3.99
	Average Minimum	42.3	42.3	42.8	38.2	47.5	35.6	35.0	41.4	43.4	43.1	34.2	41.3	37.5	36.8	40.1
JARY.	AverageMaximum	61.5	55.1	69.0	53.8	58.2	50.8	50.6	62.3	27.8	59.1	48.0	56.6	55.3	50.8	55.6
FEBRUARY	Lowest	98	88	\$	প্ত	88	ස	28	댦	88	8	ස	*	27	ස	
	Highest	88	88	67	8	35	29	89	2	2	8	8	23	88	8	
	Average Mean	61.9	48.7	6.0	46.0	52.8	43.2	45.8	51.8	50.6	51.1	41.1	48.9	46.4	43.8	47.8
	Rainfall for Month	6.80	15.31	5.10	3.64	12.72	3.22	36	3.67	1.77	98.	1.70	4.15	1.02	9.40	5.52
	Average Minimum	41.9	41.6	34.5	33 83	43.4	35.4	32.3	32.4	37.7	80.8	37.2	36.5	34.3	34.0	36.7
ABY.	AverageMaximum	67.5	54.6	6.19	50.5	54.7	900	47.1	54.0	49.2	49.6	53.0	46.5	48.9	44.8	50.9
JANUABY	Lowest	æ	23	ଷ	27	35	83	24	೫	쫎	ន	ಜ	83	윪	28	
	Highest	86	8	62	8	ස	20	22	88	<b>%</b>	88	98	22	8	83	
	Average Mean	49.7	48.1	43.2	42.0	49.4	43.0	39.7	43.2	43.4	4.7	46.1	41.5	41.6	39.4	43.8
Едв.			11 11 11 11 11 11 11 11 11 11 11 11 11									11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

METEOROLOGICAL TABLE-Continued.

Rainfall for Month

Average Minimum

AverageMaximum

Lowest .....

	AVERAGE RAIN.	Fall per Year	20.38 20.38 34.12 34.12 34.12 34.13 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38 36.38	27.57
		Yearly Minimum .	74448844460 6.244864466 6.2569 6.266866 8.3668	45.5
	VERAG]	Yearly Maximum.	88.8 6.4.8 6.4.4 6.5.4 7.4.7 8.5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	64.5
	∢	Yearly Mean	888.2888.288.288.00 0.00.00.00.00.00.00 0.00.00.00.00.00	65.0
		Rainfall for Month	.15 .05 .72 .72 .04 .17	08 <sup>.</sup>
		Average Minimum	55.7 52.8 52.9 52.9 52.9 50.2 50.2 50.3 50.8 50.8 50.8	62.2
	JUNE.	AverageMaximum	65.1.2 6.0.1.0 6.0.1.0 6.0.1.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0 6.0.0	74.0
	Ju	Lowest	84884884488821	
		Highest	201 888 888 888 888 888 888 888 888 888 8	
-		Average Mean	64.0 64.0 64.0 60.13 60.5 60.5 60.5 60.5 60.5 60.5 60.5 60.5	63,1
		Rainfall for Month	1.28 1.39 1.139 1.139 1.139 1.139 1.139 1.25 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32	1.20
-		Average Minimum	45.5 48.0 48.0 48.0 48.7 48.0 48.0 48.0 48.0 48.0 48.0 48.0 48.0	48.2
	¥.	AverageMaximum	69.7 65.8 65.8 65.2 72.7 71.3 70.1 69.6 67.6 67.6 67.6 67.6	0.69
	MAY	Lowest	\$4888888444444444444444444444444444444	
		Highest	75 88 88 88 88 88 88 88 88 88 88 88 88 88	
		Average Mean	57.6 59.8 56.9 56.9 56.1 60.1 56.1 56.1 57.6 57.6 57.6 57.6 57.6 57.6 57.6	58.6
		Rainfall for Month	2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158 2.158	2.74
		Average Minimum	44444 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00	45.3
	Hr.	AverageMaximum	66.8 66.8 66.8 66.8 66.8 66.8 66.8 66.8	63.9
	APRIL	Lowest	\$88884886288648	
		Highest	22222233333 22332333333333333333333333	
		Average Mean	55.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00 56.00	54.6
		YEARS.	1876-7 1877-8 1878-9 1870-80 1880-1 1882-3 1882-4 1883-5 1885-6 1886-7 1886-7 1888-9	Averages.

# BIENNIAL REPORT OF THE DIRECTORS

AND THE

# THIRTY-SEVENTH AND THIRTY-EIGHTH ANNUAL REPORTS

OF THE

# SUPERINTENDENT

OF THE

# INSANE ASYLUM OF THE STATE OF CALIFORNIA

(AT STOCKTON).

FOR THE TWO YEARS ENDING JUNE 30, 1890.



### SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# BOARD OF DIRECTORS.

# OCTOBER, 1890.

Hon. ROBERT WATT, President	
Appointed by Governor Irwin, 1876; reappointed pointed by Governor Stoneman, 1884; reappointed	ed by Governor Perkins, 1880; reap- by Governor Waterman, 1888.
H. T. DORRANCE, Vice-President	
Appointed by Governor Waterman, 1888.	
OBED HARVEY, M.D.	Galt,
Appointed by Governor Waterman, 1888.	
CAPT. R. S. JOHNSON	Stockton.
Appointed by Governor Waterman, 1889.	
ARTHUR THORNTON	New Hope.
Appointed by Governor Waterman, 1888.	
MEDICAL OFFIC	ERS.
HIRAM N. RUCKER, M.D.	Medical Superintendent.
JUNIUS D. YOUNG, M.D.	First Assistant Physician.
THOMAS PHILLIPS, M.D.	•
THOMAS PHILLIPS, M.D	Second Assistant Physician.
	Second Assistant Physician.
A. W. HOISHOLT, M.D	Second Assistant Physician. Third Assistant Physician.
	Second Assistant Physician. Third Assistant Physician.
A. W. HOISHOLT, M.D	Second Assistant Physician. Third Assistant Physician. Treasurer and Secretary of Board.
A. W. HOISHOLT, M.D N. M. ORR	Second Assistant Physician. Third Assistant Physician. Treasurer and Secretary of Board. Superintendent's Secretary.
N. M. ORR H. W. TAYLOR	Second Assistant Physician. Third Assistant Physician. Treasurer and Secretary of Board. Superintendent's Secretary. Steward.
N. M. ORR H. W. TAYLOR T. J. KEYS	Second Assistant Physician. Third Assistant Physician. Treasurer and Secretary of Board. Superintendent's Secretary. Steward. Supervisor.

# DIRECTORS' REPORT.

To his Excellency R. W. WATERMAN, Governor of the State of California:

In accordance with the law controlling the management of the State Insane Asylum, we, as Directors, submit our biennial report for the two years ending June 30, 1890, together with the reports of the Medical Superintendent and Treasurer, which reports are made part hereof.

Since the submission of our last biennial report a complete change has been made in the medical managing officers of the asylum. Dr. W. H. Mays, who for nearly three years had been Medical Superintendent of the institution, and had zealously labored to promote its best interests, was compelled, for private reasons, to submit his resignation to this Board, at its meeting held September 10, 1888, and the same was accepted, to take effect November 1, 1888.

At the same meeting, Dr. W. R. Langdon, who had been long connected with this asylum as Assistant Physician, and who by his skill in his profession, his earnest and conscientious efforts to perform the duties of his position, his kind and humane treatment of the unfortunates under his care, and his courteous and considerate treatment of those associated with him in the conduct and management of the institution, had made himself esteemed and respected by all, also presented his resignation, much to the regret of all those who had known of his painstaking labors to ameliorate the condition of the patients over whom he had supervision and care.

At an adjourned meeting of this Board, held on September 11, 1888, Dr. H. N. Rucker was elected Medical Superintendent to fill the vacancy caused by the resignation of Dr. Mays, and Dr. J. D. Young was elected Assistant Physician, to fill the vacancy caused by the resignation of Dr. Langdon.

On May 10, 1889, in pursuance of an Act of the Legislature, approved March 15, 1889, this Board proceeded to elect an additional Assistant Physician, and this choice fell upon Dr. Thomas Phillips.

Dr. W. A. Washingon, an Assistant Physician of this asylum for over three years, died September 4, 1889. He was a highly valued employé of this institution, and possessed in an eminent degree the qualifications of medical skill, humane instincts, pleasing personal address, to make him beloved by the patients under his care, and esteemed and respected by his associates. His death was deeply deplored by all.

At a meeting held September 26, 1889, this Board elected Dr. A. W. Hoisholt to fill the vacancy caused by the death of Dr. Washington.

Notwithstanding the fact of this unusual change in the medical management of the asylum within so short a period, we take pleasure in reporting that the selections to fill these important positions seem to have been well made, and each one has readily adapted himself to the performance of the duties of the position to which he has been elected; and each and all show a commendable ambition to make this asylum worthy of the confidence of the people, and a credit to the State from whose treasury it is supported.

During the month of November, 1888, two hundred patients were resthereon. The well for gas is also being bored upon the same piece of moved from this asylum to that at Agnews. It was expected that ground. this removal would have been effected at a much earlier date, but the delay in completing the work of furnishing accommodations at Agnews, postponed the granting of relief to the over-crowded wards of this institution until that time. By referring to the report of the Medical Superintendent herewith, for the year ending June 30, 1889, it will be seen that, notwithstanding the removal of two hundred patients to Agnews during that year, the total number of patients remaining in this asylum June 30, 1889, was only sixty-six (66) less than were here on June 30, 1888.

The excess of the expenditures for the fiscal year ending June 30. 1889, was \$11,557 32, as shown by bills now on file with the State Board of Examiners, and is to be accounted for, in part, by the large number of patients under care and treatment that year, and, in part, by an effort made to improve the condition of the patients by supplying better food and clothing.

The excess of expenditures over the appropriation for the fiscal year ending June 30, 1890, was \$9,971 99, also shown by bills now on file with the State Board of Examiners. This is to be principally attributed to the severity of the last winter. The grounds of the asylum were at one time overflowed, and basements and cellars filled with water. To keep the various buildings warm required an extraordinary consumption of coal, the cost of which was materially increased by the difficulty of transporting it to the asylum. The water from the basement had eventually to be removed by pumping, and provisions also made for draining the low places in the asylum grounds. The land under cultivation was rendered less productive, thereby seriously affecting an important source of supplies to the institution.

#### EXPENDITURES FROM CONTINGENT FUND.

As will be seen from the report of the Treasurer, considerable drafts have been made upon the Contingent Fund for extra work and material upon the new buildings lately erected upon the asylum grounds. The alterations have generally been made to conform to new conditions that have arisen since the buildings were first projected, and as none of the alterations have been of sufficient importance to necessitate a change of the original plans—the cost of no single change being \$1,000—the work has been ordered by this Board and the extra expenditures paid from the Contingent Fund, the architect and Superintendent of the buildings in every case fixing the prices to be paid for the several changes.

We have also to report that we have expended \$2,500 from the Contingent Fund in the purchase of three fourths of a block of land, and have had the same deeded to the State. This piece of land was situated near the former boundaries of the asylum grounds, but separated therefrom on two sides by unused streets, which could be closed without detriment to the public interest. The City Council of Stockton, upon a petition from this Board, passed an ordinance closing the said streets and granting the use of the ground to the asylum. By this purchase

We regret that we are again compelled to report that the appropria and grant, the asylum is much benefited, as the land acquired is near tions made for the year ending June 30, 1889, and also for the year end the new building for the Male Department, and has furnished a convening June 30, 1890, were inadequate for the support of this asylum int site for the new engine house and workshops that have been located

#### THE NORTH-STREET CANAL.

The extraordinary high water of the past winter seriously impeded the contractor in the completion of the North-Street Canal, besides seriously damaging and washing away portions of the levee that had already been completed. Further time had therefore to be granted for the completion of the work.

The pipe line designed for conducting the sewage from the asylum into a tidal basin in the canal, is now being laid, and will soon be completed, thereby removing a great cause for complaint, and improving the sanitary conditions about the asylum.

EXPENDITURES FROM THE APPROPRIATION FOR ERECTION OF NEW BUILD-INGS, AND FOR PERMANENT IMPROVEMENTS, ETC.

By an Act of the Legislature approved March 15, 1889, an appropriation of fifty thousand five hundred dollars (\$50,500) was made for certain specified erections and improvements upon the asylum grounds.

Plans were carefully considered and finally adopted for the different buildings and improvements contemplated, to wit: for the erection of boiler house, engine-room, workshops, morgue, lavatories, ironing-room, associated dining-room, and residences for two Assistant Physicians and Supervisor. The contract for performing the work was duly let after advertising for proposals as required by law.

After the contract was let, however, there were changes in the conditions of affairs at the asylum which necessitated the modification of the plans in some respects, one of the most important of which was that of authorizing the contractor to construct the residence originally designed for the Supervisor upon the same plan that had been adopted for those of the Assistant Physicians. This change was effected because of the fact that the Legislature had provided for the employment of three Assistant Physicians at the asylum, and for the further reason that a residence for the Supervisor was not then demanded.

The total cost of changing this house so as to make it upon the same plan as the others was about \$900.

The cost of making the above mentioned change, as has been heretofore stated, was paid from the Contingent Fund, as was also that of several other changes in the original plans, which, in the judgment of this Board, seemed necessary in order that buildings and improvements should more fully meet the present requirements of this institution.

Although these improvements were not completed as soon as expected, owing to the impossibility of pushing the work during the past winter, at the present writing they are all finished and most are being used for the purposes for which they were designed, and it is confidently expected that soon all will be in use, to the great advantage and benefit of this institution.

APPROPRIATION FOR FURNISHING BOILER HOUSE AND FOR REPAIRING BUILD INGS, ETC.

In the expenditure of this appropriation made by the last Legislature, of \$29,750, plans and specifications for the proposed work were carefully prepared and two contracts let, one for the cement work and the other for plumbing, roofing, water tanks, and general repairs.

The Treasurer's report will show the amount expended from this appropriation up to June 30, 1890, since which time new boilers have been placed in position, and the work contracted for completed. The pipe connections between the new boilers and buildings are being made. and it is expected that they will soon be used for the purpose of heating the buildings, and a considerable saving in the consumption of fuel be thereby made.

We confidently submit these improvements to all interested in the welfare of the asylum, firmly believing that they have been judiciously made and the appropriations economically expended.

#### APPROPRIATION FOR WATER, LIGHT, AND FUEL.

In order to intelligently and legally expend the appropriation of \$40,000 made by the last Legislature so that, if possible, the results would meet the anticipations of the people, this Board consulted with the Attorney-General of this State, and obtained his opinion as to their powers and duties in the premises.

Being instructed that the matter of the expenditure of this appropriation was left with this Board, the members thereof being expected to use their best judgment as to the action to be taken, it was decided that as the Act of the Legislature expressly provided for boring wells to supply the asylum with water, light, and fuel, two wells should be bored—one for water and one for gas. It is a well known fact that water obtained from a well giving off a considerable quantity of gas is unsuitable for culinary or irrigation purposes, and it was therefore the purpose of this Board to bore one well to a moderate depth for the purpose of obtaining an increased supply of pure water for the grounds which was much needed, while the well to be bored for gas should be sunk to as great a depth as possible. In June, 1889, the Board advertised for proposals for boring the two wells, as above stated, the bids to be opened at the regular meeting of the Board to be held on July tenth. At that meeting no propositions satisfactory to the Board were received, and an adjournment was then taken to July twenty-fourth, at which time contracts were made for boring each of the two wells. The water well has been completed, a fair flow of water being obtained at the depth of one thousand and seventy feet, which, having been analyzed by experts at the request of this Board, is pronounced to be of a quality suitable for culinary and irrigation purposes.

Unexpectedly, however, in boring this well a moderate flow of gas was obtained, and the same has been utilized by placing a receiver over the for that purpose are particularly satisfactory to the persons there engaged such supplies as will render them such comforts as the State should and as the supply is adequate for the requirements of the room, the

result of the experiment is very gratifying to the management of the

The amounts expended upon the gas well previous to June 30, 1890, are shown by the Treasurer's report. Since that time considerable progress has been made, and at one time a large flow of water and considerable gas was obtained from the well, but lately the contractor has met with an accident, which has seriously impeded the prosecution of the work, and the final result of his attempts to overcome the obstacles that now retard his progress cannot be foreseen. It may, however, be safely asserted that the probabilities of the existence of gas in such quantity as will justify the sinking of wells to secure its flow, have been strengthened by the efforts already made.

The condition of the various funds of the asylum on June 30, 1890, is shown by the Treasurer's report; but since that time expenditures have been made which have exhausted the appropriation for new buildings and permanent improvements. The appropriation for furnishing the boiler house and for repairs, and the work provided for by that appropriation, has been completed. Expenditures have also been made from the Contingent Fund in furnishing the new residences for the physicians, for which no provision had been made, and for constructing walks and grading streets upon the grounds, which will exhaust that fund when the work already projected and now being carried out is finished. All the work projected is imperatively demanded, in order that the full advantages to the institution anticipated from the erections and improvements already made, can be fully secured.

As will be seen from the report of the Superintendent, the residence so long occupied by persons in charge of this institution, has become so dilapidated as to be unsafe as "residence for the Superintendent and his family," and it has at this time been abandoned. During the last winter the moisture rose in the brick walls of the building for several feet by capillary attraction, thus rendering the rooms damp and unwholesome; and owing to the poor quality of the material of which the building is constructed, and the long period of over thirty years since it has been built, it is the judgment of this Board that it will not be in the interest of economy to repair this residence, and that provision should be made for the immediate erection of a new one more appropriate to the times and better adapted to the use of the Superintendent and family. The floor in the main halls and corridors of the building of the Female Department has become badly worn, and should be replaced.

The machinery in use in the laundry of the Male Department is so worn that it will also have to be replaced.

In order to make these necessary improvements, to wit: to erect a new residence for the Superintendent, to place new floors in the Female Department building, and the new machinery in the laundry, will, in our estimation, require an appropriation of at least \$45,000.

The expenses for supporting patients in this asylum for the year ending June 30, 1889, was  $38\frac{6}{10}$  cents per capita; for the year ending June  $30, 1890, 38\frac{3}{10}$  per capita. At the present time we have in this instituwell and conducting the gas to the ironing-room of the laundry at the tion one thousand five hundred and eighty-five patients, and we expect Female Department, where it is very successfully used in heating the that the average number for the next two years will be at least one irons. Besides the saving in fuel, the advantages derived in using gas thousand six hundred. In order to give that number proper care and

give its unfortunate wards, we think the appropriation for support for the next two years should be at least \$450,000.

Commending this important charity to your favorable consideration, we remain,

Very respectfully yours,

ROBERT WATT,
H. T. DORRANCE,
OBED HARVEY,
R. S. JOHNSON,
ARTHUR THORNTON,
Directors,

STOCKTON, October 10, 1889.

# TREASURER'S REPORT.

OFFICE OF THE SECRETARY OF BOARD OF DIRECTORS, AND TREASURER STATE INSANE ASYLUM, STOCKTON, CAL., July 31, 1890.

To the Board of Directors of the State Insane Asylum:

GENTLEMEN: In accordance with the by-laws of this institution, I have the honor to present the following biennial report of the receipts and expenditures of the State Insane Asylum at Stockton for the two years ending June 30, 1890:

# GENERAL FUND.

RECEIPTS.		
1888—June 30—Balance as per last biennial report	\$7,043 29	)
July 24—Received from the State	16,988 66	
July 24—Received from the State Sept. 15—Received from the State	36,599 18	
Oct. 5—Received from the State	3,749 6	Į.
Nov. 11—Received from the State	18,358 04	<u> </u>
Dec. 11—Received from the State	21,630 64	
1889—Jan. 11—Received from the State	21,302 36	3
Jan. 26—Received from the State	19,018 89	)
Feb. 28—Received from the State	20,706 36 17,717 58	3
Mar. 29—Received from the State	17,717 58	3
May 7—Received from the State	19,386 18	3
May 16—Received from the State	23,651 25	
June 7—Received from the State	18,299 91	
July 3—Received from the State. July 31—Received from the State.	17,071 41	
July 31—Received from the State	4,904 44	
Oct. 11—Received from the State	16,361 99	
Oct. 11—Received from the State	19,138 84	
Nov. 13—Received from the State	17,792 84	
1890—Jan. 11—Received from the State	20,992 32	
Jan. 11—Received from the State	19,035 89	
Jan. 25—Received from the State Feb. 24—Received from the State	19,895 55	
Mar. 29—Received from the State	19,457 93 17,910 68	
Apr 20 Descived from the State	18,867 85	
Apr. 30—Received from the State	19,410 84	
May 16—Received from the State  June 20—Received from the State	15,410 04	
June 20— Received from the State	17,459 46	\$473,752 03
		\$410,102 VO
disbursements,		
Amount on order of the Board for maintenance as per vouchers		
on file for year ending June 30, 1889	\$226,245 41	
For year ending June 30, 1890	223,811 60	
on file for year ending June 30, 1889 For year ending June 30, 1890 Balance in General Fund June 30, 1890	23,695 02	
	20,000 02	\$473,752 03
		<del>,, </del>

#### CONTINGENT FUND.

#### RECEIPTS.

June 30, 1888—Balance as per last biennial report	\$6,048 02	
Received from patients for board, etc., during the year ending		
June 30, 1889	13,966 95	
June 30, 1889  Seward's sales for year ending June 30, 1889  Received from patients for board, etc., during the year ending	2.495 17	
Received from patients for board, etc., during the year ending	, .	
i June 50. 1890.	15,572 95	
teward's sales for year ending June 30, 1890	1,394 11	
		\$
M· M·		•

\$39,477 20

#### DISBURSEMENTS.

For the year ending June 30, 1889:		1
Laundry work Dairy stock and horses	\$125 25	
Dairy stock and horses	1,076 00	4
Repairs	867 11	1
Interest and expressage	1,314 87	1
Trees and plants	67 53	
Expenses physician to Superintendents' Convention	400 00	
Trees and plants.  Expenses physician to Superintendents' Convention.  Advertising and printing.  Boring wells for water supply.  Architect's fees.	14 00	1
Boring wells for water supply	523 75	
Architect's fees	100 00	1
(†ravel	91 00	
Musical instruments, sheet music, and hire of musicians for		
entertainments	174 21	
Laundry machinery	630 85	•
Mileage of officers of asylum Paid for land purchased	157 60	
Paid for land purchased	2,500 00	
		\$8,042 17
For the year ending June 30, 1890:		
Laundry work	<b>\$151 65</b>	
General repairs	1,290 68	
Laundry work General repairs Insurance on boilers	55 00	
Pasturage	27 85	
Interest and expressage	772 10	
Mileage Advertising and printing	77 90	
Advertising and printing	30 50	
Civil angineer's fees	137 00	
Music, instruments, and hire of musicians	201 72	
Dairy stock and horses	307 00	
Music, instruments, and hire of musicians Dairy stock and horses Repairing stairs Sewer pipe and constructing sewers	725 00	
Sewer pipe and constructing sewers	1,038 43	
watchman's electric clock.	591 50	
Earth and gravel for grading	<b>552 00</b>	
Hose and reels	888 00	
Cement	758 50	
Extras on new buildings	2,632 00	
Laundry machinery Physician's expenses to Superintendents Convention	831 25	
Physician's expenses to Superintendents Convention	400 00	
Architect's fees	20 00	
Trees and plants	104 87	
Attorney's fees	15 00	
Analysis of artesian water	50 00	
·		11,652 95
Balance June 30, 1890		19,782 08
	-	
	_	\$39,477_20
<del></del>	-	

## APPROPRIATION FOR NORTH-STREET CANAL.

#### RECEIPTS.

1889Fab	98_Received from	the State	\$85 00
			116 30
		the State	
		the State	50 00
Sept.	15—Received from	the State	79 <b>2</b> 5
Nov.		the State	4,020 00
Dec.	3—Received from	the State	3,165 00
1889—Jan.	1—Received from	the State	315 00
		the State	3,256 20
		the State	2,295 00
		the State	1,230 01
		the State	840 00
		the State	600 01
Nov.	11—Received from	the State	1,806 30
		the State	1,737 61
		the State	720 00
1890-Jan.	27—Received from	the State	639 00
		the State	1,800 00
•		-	<del></del>

#### DISBURSEMENTS.

### APPROPRIATION FOR NEW BUILDINGS.

#### RECEIPTS.

4	1889—Sept. 26—Received from the State	<b>\$</b> 2,736 00	
Ž.	Nov. 5—Received from the State	5,224 50	
1	Nov. 13—Received from the State	1,404 00	
3	Nov. 13—Received from the State	280 00	
3	Dec. 11—Received from the State	1,500 00	
1	Dec. 11—Received from the State	150 00	
1	Dec. 11—Received from the State	6,961 50	
	1890—Jan. 7—Received from the State	150 00	
3	Jan. 10—Received from the State	3,132 90	
4	Jan. 28—Received from the State	150 00	
å	Mar. 1—Received from the State	150 00	
1	Mar. 11—Received from the State	2,289 60	
1	Mar. 29—Received from the State	2,844 36	
ł	Mar. 29—Received from the State	150 00	
1		4.832 10	
П	Apr. 27—Received from the State	150 00	
3	May 2—Received from the State		
	May 17.—Received from the State	4,794 30	
1	May 17—Received from the State	150 00	
1	June 26—Received from the State	150 00	ADE 100 00
	-		<b>\$37,199 26</b>
	DISBURSEMENTS.		
1			•
4	Paid for cement	<b>\$1,404</b> 00	
1	Architect's fees	1,500 00	-
1	Salary of Superintendent of Construction	1,480 00	
- 1	Paid contractor, Contract No. 2	32.815 26	

# APPROPRIATION FOR FURNISHING BOILER HOUSE, ETC.

#### RECEIPTS.

1889—Sept. 30—Received from the State	. \$702 00	
Sept. 30—Received from the State		
Sept. 30—Received from the State		
Sept. 30—Received from the State		
Nov. 6—Received from the State		
Nov. 13—Received from the State		
Dec. 11—Received from the State		
Dec. 11—Received from the State	1,561 50	
1890—Jan. 12—Received from the State		
Jan. 23—Received from the State	1,377 00	
Mar. 29—Received from the State	. 1,614 60	
May 2—Received from the State	3,735 00	•
May 5—Received from the State	. 540 00	
		<b>\$19,596</b> 38
DISTRIBUTED	_	

Paid for cement       \$4,446 00         Paid for advertising       148 28         Paid on Contract No. 1       6,223 50         Paid on Contract No. 3       8,778 60         —       \$19,596 3	38
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----

## APPROPRIATION FOR WATER, LIGHT, AND FUEL.

#### RECEIPTS.

89—Aug.	27—Received from the State	<b>\$</b> 203 00
Nov.	4—Received from the State	1,192 50
Dec.	12—Received from the State	1,516 50
90—Jan.	28—Received from the State	
Mar.	10—Received from the State	589 50
Mar.	29—Received from the State	1,038 85
May	11—Received from the State	1,801 50

\$8,117 10

- \$37,199 26

#### DISBURSEMENTS.

Paid for advertising	<b>\$203 00</b>	
Paid for boxing water well	2.814 10	
Paid for boxing well for gas	5.100 00	- 1
		\$8,117 10

All of which is respectfully submitted.

N. M. ORR, Treasurer.

# SUPERINTENDENT'S REPORT.

YEAR ENDING JUNE 30, 1889.

To the Directors of the Stockton State Insane Asylum:

GENTLEMEN: I submit herewith my annual report for the year ending June 30, 1889. Another report will be required of the Superintendent before the time of making the usual biennial report to the Governor, and I shall offer no extended observations at this time.

For the past year the daily per capita cost of maintaining the patients has been 38.6 cents. This includes the entire expense for food, clothing, care, and medical attendance.

Respectfully submitted.

H. N. RUCKER, Medical Superintendent.

### STATISTICAL TABLES, 1889.

#### MOVEMENT OF PATIENTS.

	Males.	Females.	Total.
Number of patients July 1, 1888	1,190 393	456 136	1,646 529
Whole number under treatment	1,583	592	2,175
Discharged recovered Discharged improved Discharged unimproved* Discharged not insane Died Escaped	147 32 155 1 100 8	44 12 60 2 34	191 44 215 . 3 134 8
Total discharged, died, and escaped	443	152	595
Number remaining June 30, 1889	1,140	440	1,580

<sup>\*</sup>Of those discharged as unimproved, one hundred and forty males and sixty females were translerred to the State Insane Asylum at Agnews, November 26, 1888.

# TABLE A.

Counties	from	which	Patients	mere	Admitted.

Alameda       41       21         Amador       2       1         Butte       7       1         Calaveras       1       1         Contra Costa       6       1         El Dorado       5       1         Fresno       14       1         Inyo       2       1         Kern       10       4         Lassen       1       1         Los Angeles       40       18         Marin       4       2         Mariposa       3       3         Mendocino       5          Merced       4       2         Modoc       1          Monterey       6       3         Nevada       9       5         Placer       1          San Benito       2       8         San Benito       2          San Fraucisco       11       3         San Joaquin       35       5         Santa Clara       11       1         Sherra       4          Siskiyou       2       1         Siskiy	Total.	Females.	Males.	Counties.
Amador       2       1         Butte       7       1         Calayeras       1       1         Contra Costa       6       1         El Dorado       5       1         Fresno       14       1         Inyo       2         Kern       10       4         Lassen       1       1         Los Angeles       40       18         Marin       4       2         Mariposa       3       3         Mendocino       5       4         Merced       4       2         Modoc       1       3         Monterey       6       3         Nevada       9       3         Placer       1       -         San Benito       2       -         San Benito       2       -         San Diego       11       3         San Joaquin       35       5         Santa Clara       11       1         Shasta       1       1         Siskiyou       2       1         Stanislaus       3       3         Tehama       1	1 62	21	41	Alameda
Butte         7         1           Calaveras         1         1           Contra Costa         6         1           El Dorado         5         1           Fresno         14         1           Inyo         2           Kern         10         4           Lassen         1         1           Los Angeles         40         18           Marin         4         2           Mariposa         3		1		
Calaveras       1       1       1         Contra Costa       6       1       1         El Dorado       5       1         Fresno       14       1       1         Inyo       2       2       4         Kern       10       4       4         Lassen       1       1       1         Los Angeles       40       18       18         Marinosa       3       3       4       2         Mariposa       3       3       4       2         Merced       4       2       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       4       2       <		1		
Contra Costa       6       1         El Dorado       5       1         Fresno       14       1         Inyo       2       4         Kern       10       4         Lassen       1       1         Los Angeles       40       18         Marin       4       2         Mariposa       3	Ī 1 9	1		Calaveras
El Dorado       5       1         Fresno       14       1         Inyo       2         Kern       10       4         Los Angeles       40       18         Marin       4       2         Mariposa       3       8         Mendocino       5       8         Merced       4       2         Modoc       1       8         Moreted       9       3         Nevada       9       3         Placer       1       8         Sar Benito       2       8         San Benito       2       8         San Benito       2       8         San Diego       11       1         San Francisco       117       49         San Joaquin       35       5         Santa Clara       11       1         Shasta       1       1         Siskiyou       2       1         Stanislaus       2       1         Tehama       1       1         Tulare       8       6         Tuolumne       3       1         Yuba       5 <td>īl 5</td> <td>i 11</td> <td>- 1</td> <td>Contra Costa</td>	īl 5	i 11	- 1	Contra Costa
Fresno         14         1           Inyo         2           Kern         10         4           Lassen         1         1         1           Los Angeles         40         18         18           Marinosa         3         3         3           Mendocino         5         2         3           Merced         4         2         4         2           Monterey         6         3         3         3         3           Nevada         9         3         5         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 </td <td>ī ) à</td> <td>1 1</td> <td></td> <td>El Dorado</td>	ī ) à	1 1		El Dorado
Inyo       2         Kern       10       4         Lassen       1       1       1         Los Angeles       40       18         Marin       4       2         Mariposa       3          Mendocino       5          Merced       4       2         Modoc       1          Monterey       6       3         Nevada       9       3         Placer       1          Sar Benito       2          San Benito       2          San Bernardino       11       3         San Diego       11       1         San Joaquin       35       5         Santa Clara       11       1         Shasta       1       1         Siskiyou       2       1         Stanislaus       8       3         Tehama       1       1         Tulare       8       6         Tuolume       3       1         Yuba       5       1         State Prison—San Quentin       1       1 <td>ī 15</td> <td>ī</td> <td></td> <td>Fresno</td>	ī 15	ī		Fresno
Kern       10       4         Lassen       1       1         Los Angeles       40       18         Marin       4       2         Mariposa       3          Mendocino       5          Merced       4       2         Modoc       1          Monterey       6       3         Nevada       9       3         Placer       1          Sar San Benito       2          San Benito       2          San Diego       11       1         San Francisco       117       49         San Joaquin       35       5         Santa Clara       11       1         Shasta       1       1         Siskiyou       2       1         Stanislaus       3       3         Tehama       1       1         Tuolumne       3       1         Yuba       5       1         State Prison—San Quentin       1       1	- W	- 1		
Lassen       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       2       1       1       1       1       2       1       1       1       1       2       1       1       1       2       2       1       1       2       2       2       2       2       2       2       2       3       3       3       1       1       1       3       3       1       1       1       3       1       3       1       3       3       1       3       3       1       2       2       3       3       1       3       3       3       1       3       3       3       1       3       3       3       1       1       1       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3 <td>4 14</td> <td>1</td> <td></td> <td></td>	4 14	1		
Los Angeles         40         18           Marin         4         2           Mariposa         3            Mendocino         5            Merced         4         2           Mondoe         1            Monterey         6         3           Nevada         9         3           Placer         1            Saramento         8         5           San Benito         2            San Diego         11         3           San Diego         11         1           San Joaquin         35         5           Santa Clara         11         1           Shasta         1            Sierra         4            Sierra         4            Stanislaus         2         1           Stanislaus         3         3           Tehama         1            Tulare         8         6           Tuolume         3         1           Yuba         5         1           State Prison—S				Laggan
Marin       4       2         Mariposa       3         Mendocino       5         Merced       4       2         Modoc       1         Monterey       6       3         Nevada       9       3         Placer       1				Los Angolos
Mariposa         3           Mendocino         5           Merced         4           Modoc         1           Monterey         6           Monterey         6           Monterey         6           Monterey         6           Monterey         6           Monterey         6           Monterey         6           San Nevada         9           San Piacer         1           San Benito         2           San Benito         2           San Benito         11           San Diego         11           San Joaquin         35           San Joaquin         35           San Joaquin         35           San Joaquin         35           Santa Clara         11           Shasta         1           Sierra         4           Siskiyou         2           Stanislaus         3           Tehama         1           Tulare         8           Tulare         8           Tulare         8           Tulare         8           Tulare <t< td=""><td></td><td></td><td> 1</td><td></td></t<>			1	
Mendocino         5           Merced         4         2           Modoc         1	٥ ا ''	4		
Merced         4         2           Modoc         1	2			
Modoe         1           Monterey         6         3           Nevada         9         3           Placer         1	5- 8			
Monterey       6       3         Nevada       9       3         Placer       1          Sar Benito       2          San Benito       11       3         San Bernardino       11       1         San Diego       11       1         San Joaquin       35       5         Santa Clara       11       1         Shasta       11       1         Sierra       4          Siskiyou       2       1         Stanislaus       8       3         Tehama       1          Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1	4	4	- 1	Medea
Nevada         9         3           Placer         1	5- 1			Monton
Placer         1           Sacramento         8         5           San Benito         2           San Bernardino         11         3           San Diego         11         1           San Francisco         117         49           San Joaquin         35         5           Santa Clara         11         1           Shasta         1         -           Sierra         4         -           Siskiyou         2         1           Stanislaus         8         3           Tehama         1         -           Tulare         8         6           Tuolumne         3         1           Yuba         5         1           State Prison—Folsom         3         -           State Prison—San Quentin         1         -				Monterey
Sacramento         8         5           San Benito         2           San Bernardino         11         3           San Diego         11         1           San Francisco         117         49           San Joaquin         35         5           Santa Clara         11         1           Shasta         1	5   12	) b		
San Benito       2         San Bernardino       11       3         San Diego       11       1         San Francisco       117       49         San Joaquin       35       5         Santa Clara       11       1         Shasta       1       1         Sierra       4       1         Siskiyou       2       1         Stanislaus       8       3         Tehama       1       1         Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3       1         State Prison—San Quentin       1	1	<b></b> <u>-</u> -		Placer
San Bernardino       11       3         San Diego       11       1         San Francisco       117       49         San Joaquin       35       5         Santa Clara       11       1         Shasta       1       -         Sierra       4       -         Siskiyou       2       1         Stanislaus       8       3         Tehama       1       -         Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3       -         State Prison—San Quentin       1       -	5   13	0		Sacramento
San Diego       11       1         San Francisco       117       49         San Joaquin       35       5         Santa Clara       11       1         Shasta       1          Sierra       4          Siskiyou       2       1         Stanislaus       8       3         Tehama       1          Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1	<u>-</u> -  .2			San Benito
San Francisco       117       49         San Joaquin       35       5         Santa Clara       11       1         Shasta       1				San Bernardino
San Joaquin       35       5         Santa Clara       11       1         Shasta       1       1         Sierra       4       1         Siskiyou       2       1         Stanislaus       8       3         Tehama       1       1         Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3       1         State Prison—San Quentin       1       1				San Diego
Santa Clara       11       1         Shasta       1         Sierra       4         Siskiyou       2       1         Stanislaus       8       3         Tehama       1          Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1				San Francisco
Shasta.       1         Sierra.       4         Siskiyou       2       1         Stanislaus       8       3         Tehama       1				
Sierra       4         Siskiyou       2       1         Stanislaus       8       3         Tehama       1	1 12	1		
Siskiyou       2       1         Stanislaus       8       3         Tehama       1	1			
Stanislaus       8       3         Tehama       1          Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1	<u>  4</u>			
Tehama       1         Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1				
Tulare       8       6         Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1	3   11	3		
Tuolumne       3       1         Yuba       5       1         State Prison—Folsom       3         State Prison—San Quentin       1	1			Tehama
Yuba       5       1         State Prison—Folsom       3          State Prison—San Quentin       1	6 14	6		Tulare
Yuba       5       1         State Prison—Folsom       3	-, -			Tuolumne
State Prison—Folsom 3 State Prison—San Quentin 1	1 ) 6	1	5	Yuba
State Prison—San Quentin11	3		3	
	1		1	State Prison—San Quentin
m + 1	6 529	100		m / 1
Totals	no   529	136	393	Totals

# TABLE B.

# Nativity of those Admitted.

NATIVITY.	Males.	Females.	Total
United States.			
Arkansas	2	1	
California	27	17	4
Connecticut	1		
District of Columbia	4	1	
Georgia			`•
Illinois		4	1
Indiana		] 2	
Iowa		1	
Kansas	1		
Kentucky	4		
Louisiana	<b></b>	-	1
Maine	1	4	•
Maryland		2	. 1
Masšachusetts Michigan	10	1 1	
Missouri	1 5	7	. 1
Montana	<b>'</b>	1 i	i
New Hampshire	1	1 7	

# TABLE B-Continued.

NATIVITY.	Males.	Females.	Total.
New Jersey	1	1	2
New York	25	1 7	32
North Carolina	1	'	1
Onio	5	8	13
On Lake Erie	ĭ	•	1 1
Pennsylvania	8	4	12
Tennessee	ĭ	*	1 1
Texas	i		i
Utah			
Virginia	2 2	2	2
West Virginia	ī	, z	1 1
Wisconsin	6		1 -
United States	23	1	200
omied States	23	6	29
Totals	165	72	237
Foreign Countries.			
Alsace	2		2
Austria	8	1	9
Azores	ľ	_	ľ
Belgium	ī		Ī
Bravos Islands.	ĩ		Î
Canada	10	ī	11
China	32	i	33
Denmark	. 5		- Se
England	19	4	5 23
Finland	$\frac{13}{2}$	*	$\frac{25}{2}$
13	10		
France		1	11
Germany	34	14	48
Hanover	1		1
Hungary	2		57
Ireland	34	23	57
Island of Flores	1		1
Isle of Man	1		1
Italy	4	2	6
Japan	2		6 2 1 7 4
Manilla	1		1
Mexico	6	1	7
Norway	4		4
Nova Scotia	1		1
On sea	1.1		1
Poland		1	1
Portugal	2	1	3
Prussia	$\begin{bmatrix} 2\\2\\2 \end{bmatrix}$	_	ž
Russia	- 5		. 5
Scotland	8		. 2 2 8
Slavonia	ĭ		1
Sweden	14	6	20
Switzerland	4	3	20 7
	1	9	
Turkey	11		1
Unknown	11	5	16
Totals	228	64	292
į.			

## RECAPITULATION.

NATIVITY.	Males.	Females.	Total.
United States Foreign countries Unknown	165 217 11	72 59 5	237 276 16
Totals	393	136	529

TABLE C.

# Age when Insanity First Appeared.

AGES.	Males.	Females.	Total.
Under 10 years	3	5	8
Between 10 and 15 years	4	1	Ĩ
Between 15 and 20 years	23	8	ai
Between 20 and 25 years	52	20	79
Between 25 and 30 years	1 58	16	74
Between 30 and 35 years	59	16	71
Between 35 and 40 years	46	17	6
Between 40 and 45 years	36	18	54
Between 45 and 50 years	1 30	12	42
Between 50 and 55 years	22	5	2
Between 55 and 60 years	25	6	31
Between 60 and 65 years	1 8	5	15
Between 65 and 70 years	i 6		ě
Between 70 and 75 years	1 2	3	
Between 75 and 80 years	1	1	2
Between 80 and 85 years	2		9
Between 85 and 90 years			1
Unknown	15	3	18
Totals	393	136	52

TABLE D.

## Age at Time of Admission.

Ages.	Males.	Females.	Total
Under 10 years	1		1
Between 10 and 15 years	1	4	Б
Between 15 and 20 years	13	8	21.
Between 20 and 25 years	54	19	73
Between 25 and 30 years	60	16	76
Detween 50 and 50 years	1 99	11	70
Between 35 and 40 years	46	20	66,
Between 40 and 45 years	34	19	53
Between 45 and 50 years	32	13	45
Between 50 and 55 years	28	6	34
Between 55 and 60 years	29	7	36
Between 60 and 65 years	1 6	6	12.
Between 65 and 70 years	7		7.
Between 70 and 75 years	3	2	J 59
Between 75 and 80 years	2	2	'\$
Between 80 and 85 years	2	1	2
Between 85 and 90 years	1		1
Unknown	15	3	18'
Totals	393	136	529

### TABLE E.

# Cause of Insanity as stated in Commitments.

Cause of Insulary as stated in Communicates.				
CAUSE.	Males.	Females.	Total.	
Intemperance	38	5	43	
Heredity	l ii	ě	20	
Epilepsy	16	5	21	
Masturbation	44	i	45	
Religion	14	6	20	
Family troubles	3	1 7 1	20	
Rusiness and money troubles	100	4	17	
Business and money troubles	. 16	1 1	17	
Injury to head Cerebral disease	. 10	1	11	
Gerebrai disease	8	2	10	
Meningitis		1 1	1	
Opium or morphine habit	. 11	6	17	
Senility	.} 1	1	2	
Irregular life and exposure	. 4	1	5	
Despondency—homesickness	.( 2		2	
Overwork	. 4	1 1	5	
Love affairs	.] 2	1	3	
, Sexual excesses	.i 1	l	1	
Nervous debility	. 1	2	3	
Menstrual derangement		2 3	š	
Puerperal state	1	ĬĬ	ĭ	
Change of life		$\tilde{2}$	$ar{2}$	
Uterine troubles		ไ	ĩ	
Syphilis	5	1 *	5	
Solitude			2	
Ill health	1 1.	3	4	
Paralysis	i î	"	1	
Death of relative	3	5	8	
Death of relative	6	2	8	
Sunstroke and overheat	4	- 1	4	
Gunshot wound	i		1	
Spiritualism	1 1	1	2	
Use of tobacco.			î	
Reading trashy novels	l 1		<u> </u>	
Operation of stone	1		1	
Measles		1	_	
Loss of property.	2	1	1	
Childbirth	Z		2	
Monorougo		3	2 3 2 2 2	
Menopause		2	z	
Congenital	1	2	2	
Old age		2		
Typhoid fever Chronic disorder of stomach		1 1	1	
Chrome disorder of stomach	. 1	{	. 1	
Dyspepsia	. 1		1	
Inhaling gas	1		1	
Individual habits	. 1		1	
Mining, etc.	. 1		1	
Disappointed ambition	. 1		1	
Criminal abortion	.{	1 1	1	
Secret vice			1	
Unknown	170	60	230	
Totala	200	100		
Totals	393	136	529	

# TABLE F.

# ${\it Classification.}$

CLASS.	Males.	Females.	Total,
Mania,	7	2	
Acute mania	103	33	136
Chronic mania	42	18	60
Recurrent mania	23	4	27
Sub-acute mania			. 8
Puerperal mania		2	2
Monomania	9	2	11
Chronic monomania	1		]
Melancholia	3	3	•
Acute melancholia		17	42
Chronic melancholia		6	29
Recurrent melancholia			-
Puerperal melancholia		2	3
Domontia	9	2	11
DemêntiaPrimary dementia	6	2	
Secondary demonsis	Š	l īl	
Secondary dementia	12	-	1
Chronic dementia	25	5	3
Senile dementia		5	Ĭ
	23	7	3
Partial dementia	17	8	ž
Epilepsy	14	"	_
General paresis	3		
Hypochondriasis	1	2	1
Moral insanity		i îi	•
Delusion insanity		1 1	
Toxic insanity	1 =		
Traumatic insanity	1 7		
Syphilitic insanity	_	1	
Hysterical insanity		1 1	
Morphine habit	1 1	1	1
Alcoholism		4	'
Mania a potu		1 2	l
Idiocy	1	2	1
Not insane	7	4	l
Totals	393	136	52

# TABLE G. Civil Condition.

Civil Condition.	Males.	Females.	Total.
Married Single Side Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Single Sin	89 243	59 44 27	148 287 27
Widows Widowers Divorced Unknown	$\begin{array}{c} 12 \\ 1 \\ 48 \end{array}$	3 3	12 4 51
Totals	393	136	529

# TABLE H.

### Occupations.

Occupations.			
Occupations.	Males.	Females.	Total.
Actors	2		2
Bakers	3		2 3 3 4 2 1 1 2 2 2 1 7
Barbers	3		3
Blacksmiths	4		4
Bookkeepers	2		<b>2</b>
Bookseller	1		1
Boxmaker	1		1
Brewers	<b>2</b>		2
Butchers	<b>2</b>		2
Cabinetmaker	1		1
Carpenters	7		7
Chairmaker	1		
Cigarmaker	1	[:	1
Civil engineer	1		1
Clerks	5		1 5
Commercial traveler	1		1
Compositor	1		1
Contractor	1		1
Convicts.	4		4
Cooks	14	1	15
Dentists	3		9
Domestics	i	11	12
Dressmakers		3	3
Drivers	2		Ĭ
Druggist	1		3 12 3 2 1 1 2 27
Employment office	_	1	ī
Ex-convicts	2	1	5
Farmers	27		27
Farmer's daughter		i	
Feed and stablemen	2	1 -	2 2 2 6
Fishermen	2		1 6
Gardeners	6		
Glove cutter.	ĭ		1
Goat raiser	i		1
Grocers	i		
	2		1 1 2
Hack drivers Hair dresser	2	ī	1 1
Hardware	1	1 -	1
	2		1
Harnessmakers	1		1 2
Hatters	1	10	
Housekeepers		16 48	16
Housewives	2	40	. 48
Insurance agents	í		2
Janitor	112	<del>-</del>	1110
Laborers	112		112
Laborer's wife		1	1
Landlady		1	1
ather	1		1
aundryman	1		1
awyers	2		2 1
odginghouse keeper	1		1
ongshoreman	1		1
Ason	1	[ <b>-</b>	1 7 6 2
Mechanics	7	- <b></b>	7
Lerchants	6		. 6
dillers	2		2
dilliners		1 1	
liners	17		17
Linisters	1		1
tolders	1		. 1
Musician	1		. 1
usic teacher	1		1
Newspaper reporter	1		1
Mirseryman	1		1
cainters	6		6
ranernanger	1	l	1
Catternmaker	1		1
Peddlers	<u>ī</u>		1
	- 1		_

# TABLE H-Continued.

Occupation.	Måles.	Females.	Total,						
Physicians	2		9.						
Plasterers	l ī		4.						
Printers			1						
Prostitutes	] -	2	4.:						
Railroaders	2	[ -	4.						
Real estate dealers.	4		4						
Religieuse		i	9						
Residing with parents		1 1	11.						
Sailmaker	1	1 *1	1.						
Sailors	10		1.						
Salesmen			10.						
Saloonkeeper	4		2						
School boy		. 1	1,						
School win	. 1		. 1						
School girl	<b> </b>	4 41	<b>1</b> ,						
Seamstresses Shaper hand		4 4	. 4						
Shaper hand	1		I						
Sheepherders	. 5		5,						
Ship chandler			. 1						
Shoemakers	. 5	1	5						
Spinster		.{ 1	i <b>1</b>						
Stationery and tobacco dealer	. 1		1						
Stock raiser	. 1		1						
Students	. 2		2						
Tailor	.  1	1	1						
Teacher		1	1						
Teamsters	4	1	4						
Tinsmith	. 1		1						
Tramp.	$\bar{1}$		ī						
Trapper and hunter	ī								
Waiters	5								
Watchman	ĭ		ĭ						
Weaver		1	ī						
Winemaker	i		ī						
Woodchoppers			2						
Wood dealer	[ 1]	[	i						
No occupation	1 7	9	16						
Unknown	45	30	16 75:						
OHAHOWII.		90	(v ·						
Totals	393	136	529						

# TABLE I.

# Cause of Death.

CAUSE.	Males.	Females.	Total.
Consumption  Exhaustion from acute mania	21	2	
Exhaustion from acute mania	10	6	2
Marasmus	11		10
Paralysis	8		13
Senile decay	8	5	1
Apoplexy Maniacal exhaustion	4	4	1.
Maniacal exhaustion	2	1 1	
Epilepsy	4	3	
Pneumonia	3	[]	
Diarrhœa	3		
Exhaustion from chronic brain disease	3		
Typhoid fever		2	
Suicide	2	1	
Suicide	2	1	•
Valvular disease of heart.	2		
General debility Paralysis and general debility	1	1	•
Paralysis and general debility	1	1 1	
Acute mania	1		
Heart disease	<u>ī</u>		
Chronic dementia and old age	1 -		
Exhaustion from melancholia	1 7		·
Exhaustion from chronic mania	ī		
Gastric catarrh	· 1		
[nanition	1		
Dropsy	1		
Debility	1		
Collapse from acute mania	_		
Paralysis and gameral decay	1		
Paralysis and general decay. Heneral paresis	1		
ntestinal obstruction	1		
ntestinal obstruction	1	<b></b>	
Purpura hemorrhagica and exhaustion Phronic bronchitis from inhaling gas	1		
bronic bronchitis from inhaling gas.	1		
sthma	1		
assive hemorrhage of the stomach	1		:
(FIGHT'S CHS6986		1	:
rganic disease of brain		i /	
lemorrhage of lungs	1	1	
apid consumption		i	
eneral prostration			
		1	]
Totals	100	0.4	
	100	34	134

# ACCOUNT OF ARTICLES CONSUMED AND ANNUAL EXPENDITURES AT THE ASYLUM.

ARTICLES.	Value.
Flour	\$10,918 12
Meat	23,465 60
Sugar	3,767 55
Tea	878 75
	1 420 10
Syrup	1,439 71
Potatoes	2,815 40
Butter	9,123 85
Coffee	3,312 07
Fish	1,048 35
Eggs	568 86
Beans and pease Rice and cracked wheat	962 57
Rice and cracked wheat	1,573 87
Cornmeal	458 92
Fruit	967 49
Vegetables	379 71
	167 48
Salt	119 08
Vinegar	
Small groceries.	1,380 72
Soap, starch, and potash Drugs and medicines	1,468 01
Drugs and medicines	2,049 19
Liquors	514 40
Tobacco	1,222 30 2,378 50
Dry goods Clothing and hats	2,378 50
Clothing and hats	6,814 45
Shoes and leather	2,604 18
Blankets	2,758 55
Furniture and crockeryware	2,258 80
Hardware and tinware Bedding Brooms and brushes.	1,298 43
Radding	2,085 58
Decome and humahos	476 09
Diomis and ordinates	3,551 51
Hay, grain, and feed Garden seeds and tools	369 09
Garden seeds and tools.	812 81
Lumber	
Repairs and improvements Paints, oils, and glass Books and stationery	2,617 43
Paints, oils, and glass	1,435 60
Books and stationery	674 10
Gas and oil	2,202 71
Fuel	22,151 49
Castings, pipes, and iron	2,583 32
Advertising for supplies	300 00
Advertising for supplies Services of Directors and Secretary Discharged patients	1,796 40
Discharged patients	502 75
Returned escanes	236 65
Payroll and wages	94.385 16
Miscellaneous	1,850 20
III INCOMMINO CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACT	1,000 20
Total	\$224,745 76

### COST OF THE DIFFERENT DEPARTMENTS.

DEPARTMENTS.							
Male kitchen and dining-room Male department.	\$40,363 67 67,588 86						
Female kitchen and dining-room	19,190 94 38,284 94						
Female department Bakery Engine houses and laundries	11,985 10 9,070 16						
Farmi, garden, and dairy	a. (Ia an						
Repairs and improvements General mechanic's shop	1,021 07						
Office	638 18						
Advertising for supplies Services of Directors and Secretary	300 00 1,796 40						
Medical Superintendent Assistant Physician	5,077 93 4,300 00						
Assistant Physician	4,300 00 537 51						
Assistant Physician Miscellaneous	4,034 33						
Total	\$224,745 76						

### AVERAGES.

Months.	Average No. of Patients Daily.	Average Daily Expenses.	Average Cost per Capita per Day—Cents.	
1888—July	1,654	\$558 81	33.8	\$10 <b>4</b> 7
August	1,674	589 65	35.2	10 92
September	1,675	611 15	36.5	10 94
October	1,694	671 25	39.6	12 28
November	1,660	702 69	<b>4</b> 2.3	12 70
December	1,503	631 05	42.0	13 01
1889—January	1,516	663 24	43.7	13 56
February	1,529	645 57	42.2	11 82
March	1,539	610 25	39.6	12 29
April	1,556	597 35	38.4	11 52
May	1,561	553 59	35.5	11 00
June	1,575	557 01	35.3	10 61
Yearly averages for 1888-89	1,595	\$615 74	38.6	\$11 74

#### PRODUCTS OF THE FARM, GARDEN, AND DAIRY.

ABTICLES.	1889. Amount.
Beets, pounds. Tomatoes, pounds. Parsnips, turnips, and carrots, pounds. Pease and string beans, pounds. Pumpkins and squash, pounds. Egg plant and radish, pounds. Green corn and cucumbers, dozens. Celery, dozens. Cabbage, pounds Onions, pounds Lettuce, dozens. Pepper and okra, pounds Watermelons and muskinelons, dozens Hay and alfalfa, tons. Apples, pears, apricots, and peaches, pounds Grapes, pounds Pork, pounds Beef, pounds Beef, pounds	20,355 32,985 58,965 6,160 33,596 3,815 2,754 98 10,535 23,382 737 1,551 198 140 430 14,990 8,580
Milk, gallons Eggs, dozens Chickens, number used	41,410

#### LIVE STOCK SOLD.

Stock.	Number Sold.	Price.
Hogs and pigs	74	\$688 12 896 25
	1 32	35 25 253 85
Totals		\$1,873 47

#### RECEIVED FROM GERLACH & FISK.

For swill six months, at \$32 per month.....

#### LIVE STOCK ON HAND.

STOCK.	1888–1890. Number.
Milch cows Yearlings	62 14
Young calves	15 2 70
•	

# SUPERINTENDENT'S REPORT.

YEAR ENDING JUNE 30, 1890.

To the Directors of the Stockton State Insane Asylum:

I have the honor to present for your consideration the report of the

forty-first fiscal year, ending June 30, 1890.

The slight increase in per capita cost of maintenance for the past biennial period has been due, first, to the decrease in population by reason of the transfer of two hundred patients to the Agnews Asylum, and second, to the increased variety in the dietary of the patients, and the better grade of clothing furnished them. At the time the transfer was made, there were seventeen hundred patients in the institution; and while the number was materially changed, a corresponding reduction could not be made in the general expenses of the asylum.

The whole number of patients in the asylum at the beginning of the past fiscal year, July 1, 1889, and the movement of patients during the

year, may be learned from the following summary:

MOVEMENT OF PATIENTS.	Males.	Females.	Total.
Number of patients July 1, 1889	1,140 242	440 84	1,580 326
Whole number under treatment	1,382	524	1,906
Discharged recovered Discharged improved Discharged unimproved Discharged not insane Died Escaped	112 30 11 4 91 5	22 15 8 20	134 45 19 4 111 5
Discharged, died, and escaped	253	65	318
Number remaining June 30, 1890	1,125	459	1,584

The institution has been remarkably free from epidemic disease. The malady popularly termed "la grippe" has passed us by unharmed.

The percentage of deaths, as compared with last year, has been notably less. Many of the deaths which have occurred have been among the

aged and infirm.

The past winter was unprecedented in the annals of the asylum. Almost the entire grounds were inundated, and for a period of about four months the weather continued so damp and cold that scarcely anything could be done in the garden, and the result has been a diminished production of vegetables.

In consequence of the long, wet winter, the item of fuel has been an expensive one, and the same cause has delayed the completion of im-

provements and repairs for at least four months.

The money appropriated by our last Legislature for improvements and

repairs at the asylum, has been judiciously and economically expended. But unfortunately the amount was inadequate to meet all the require. ments.

The item of reflooring the Female Department building was unfortunately overlooked, and was not included when making estimates on the work. It is of the utmost importance that something should be done to meet this necessity. Nearly all the floors in the main halls of the building have hardly been fit for use for the past year. In many places they are entirely worn through, and are becoming dangerous. It is also very necessary that the walks and driveways should be improved. During the past two winters the driveways have been almost impassable, and they sadly need paving.

The old residence, heretofore occupied by the Superintendent, became so damp and rickety that it was considered unsafe longer to live in it. The Superintendent is now domiciled in one of the new residences built for the Assistant Physicians, and one of the physicians remains unprovided for. It will be necessary to build another house before all the physicians can be accommodated on the grounds.

To meet the improvements and repairs mentioned above will require

an extra appropriation of fully \$45,000.

I regret to report a deficiency for the past year of \$9,971 99, and with the present number of patients, and the prospective increase, the annual expenses will continue to exceed the present appropriation.

There is little prospect that our population will be diminished for the next two years, but on the contrary we may reasonably expect an

increase.

The per capita cost of supporting the patients cannot be lower, without disregarding their comfort and well being. Strict economy has been exercised, but it has been impossible to avoid a deficiency for the past several years. To maintain the large number of patients that must necessarily be cared for in this institution during the next biennial period, will require an appropriation of \$450,000.

The expenditure of the appropriation for improvements and repairs entailed a deal of work and expense that it was impossible to estimate in the beginning, and our laboring force has been very busy. For the same reason, drafts upon the Contingent Fund have been large, and to meet all the requirements, it has been necessary to employ much additional help during most of the time the work was in progress.

After the further contemplated improvements have been made, viz.: the reflooring of the Female Department building, the paving of the drives and walks, and the erection of a residence for the Superintendent, the asylum will be in a very satisfactory condition; and it will be many years before another extra appropriation will be needed.

#### ESTATES OF INSANE PERSONS.

The attention of the Legislature should be called to the manner in which the small estates of persons who have been committed to the insane asylum are managed. And, in this connection, I wish to say that I intend no reflection upon the guardians of such persons, or upon the Courts. It is the system of administration to which objection is

Under the present method of management, a small estate may be

and often is, kept in Court for an indefinite period—for such a length of time, in fact, that a fourth or a third of it is eaten up by costs, commissions, attorneys' fees, and other expenses. There is an obvious wrong in such a method of administration. If a person is to derive any good from his estate, the benefit should come when he needs it most. A better plan for the management of the estate of insane persons than the one now existing should be provided.

In the great majority of cases, the physicians who have the insane person constantly under their charge, can, within a period of six months, form a reasonably correct judgment as to whether he will recover or not. And if it shall appear that there is no likelihood of his recovery, then the Superintendent of the asylum in which such insane person is an inmate should file a certificate to that effect in the Court out of which letters of guardianship were issued. Then, if the estate be small—say of \$1,000 or less—and does not constitute the means of livelihood of any person whom the insane person would be bound to support, such estate should be converted into money, and the money turned over to the Treasurer of the asylum of which such insane person is an inmate. The Treasurer should be required to place the money at interest in some savings institution, to be drawn upon by the Superintendent for the support and other expenses of the insane person. And any sum thus drawn shall constitute and be treated as a part of the Contingent Fund. By some such provision as this, the State would get all that it has a right to claim, and the welfare of the insane person be kept steadily in view.

There is an important consideration, however, which should not be lost sight of. In seeking to indemnify itself for the cost of maintaining the insane, the State should not take that which is the support of those whom the insane person would be legally or morally bound to cherish, if he were otherwise situated. In other words, when the estate is required for the support of those who would be dependent upon the insane person, if he were sound and well, the State alone should bear the charge of his maintenance.

#### PUBLIC VISITORS.

It has been the custom for years to exclude male visitors from the wards of the Female Department, except in special instances, and a like rule has lately been adopted in regard to the visits of ladies to the wards of the Male Departments, except on errands of mercy to personal friends; or the visits of relatives, when in the judgment of the physician such' visits will not prove detrimental to the patient.

' After careful observation, I am of the opinion that the indiscriminate visits of the general public to our asylums is productive of positive mischief, and should be prohibited. The great majority of people who throng our asylums as visitors are mere sightseers or curiosity hunters, and, as a rule, fail to appreciate properly the great aim the State has

in view in equipping and supporting these institutions.

There are always a large number of patients confined in our asylums who are keenly alive to the humiliation of being regarded as objects of curiosity and gossip, and some are abnormally sensitive upon this sublect. This almost daily embarrassment and disturbance to such patients can but aggravate their symptoms and retard their recovery; for many who are admitted to asylums need no other treatment than absolute rest, seclusion, and freedom from the harrowing cares and responsibilities of business associations.

The public generally would hardly presume upon invading the wards of a hospital devoted to the treatment of physical ailments, for reasons that seem to be well understood; nor is there any more reason why the public should invade the rights of those who are unfortunately confined in our State hospitals for mental diseases. It is simply a relic of the ignorance, superstition, and barbarity of the not very remote past, which prompts the morbid curiosity of our people, and the practice of unlimited freedom in this particular should be restricted. There is no warrant, either in humanity or expediency, for the indiscriminate and wholesale admission of the curious public to the wards of our asylums, as is the custom at the present day.

The doors of an asylum should ever be open, however, to the conservators of public interests, such as public officials, the press, the clergy, and the medical profession. Relatives of patients are always welcome; for with the proper knowledge of the discipline and order maintained in the wards, the kind and considerate care bestowed upon the patients, and the precautions taken for their safety, will inspire confidence in the management, and an increased respect for the institution.

#### ASYLUM INTERNES.

I am sure good would result from offering inducements to young physicians to serve as internes in our asylums for a stated period. These should be selected from young unmarried men who have finished the required course in accredited medical schools. They should be elected by the Board of Directors, and furnished with board and lodging on the asylum premises, and a small amount, say of \$20 per month, for clothing and incidentals. The term of such service should be limited to one year, and the number of internes to one in each institution, and upon the expiration of whose term, another should be elected. Each applicant for the position of interne should be required to furnish a satisfactory recommendation from the Dean of the Medical College from which he has graduated, and also certificates of good moral character.

After an interne has served the required time, or has honorably severed his connection with the asylum, he should be entitled to a certificate from the Superintendent, or Chief Medical Officer of the institution, setting forth the length of service, habits of application, efficiency, etc.

From among those who had availed themselves of this special course of study, vacancies in asylum staffs could be filled.

#### CHANGE OF NAME.

Observation has convinced me that there is much in the name when considering the official title of our institutions for the insane, and I believe the elimination of "lunatic" and "insane" would free these institutions from much of the distressing influences and terrors which attach to them in the weak and timid minds of a large proportion of those who should have, or are receiving, the protection and shelter they afford.

The abuses which were practiced in the past through ignorance and superstition, have left a stigma upon asylums, which abides to this day

with the uninformed and the feeble-minded; and such fail to even faintly appreciate that the word asylum signifies the refuge and protection of a philanthropy both exalted and beneficent. Hence it is that many, through prejudice gained in this way, shrink from custody and treatment in an institution where the very name recalls so many unhappy impressions.

In many of the Eastern States the word "hospital" is very properly taking the place of "asylum," and there is consolation in the association of the word. In the first instance, we have the conception of physical disease in its relation to scientific treatment; in the second instance, there is conjured up in the mind the association of hopeless calamity and a lasting stigma.

Believing that it should ever be the aim of public functionaries studiously to consider the best means of protecting the public weal, I invite your attention to these suggestions, which I trust may meet with your sanction.

A less objectionable title would be, State Hospital for Mental Diseases; or still better, Stockton State Hospital, Napa State Hospital, etc., according to locality.

#### TRANSFER OF CHINESE PATIENTS.

Attention has been called in previous reports to the transfer of Chinese insane to their native land; but so far, the subject seems to have been treated with indifference. Viewed from an economical standpoint, I am sure it would be greatly to the advantage of the State to make the necessary provision for shipping them out of the country.

There are in this asylum at the present time, seventy-seven male and three female Chinese patients. Fully nine tenths of these may be classed as chronic cases, and will be a charge upon the State as long as they live. In the Napa Asylum there are thirty-nine, and in the Agnews Asylum eleven more, making a total of one hundred and thirty that are being maintained at an annual cost to the State of about \$18,000.

The estimated cost of sending all these patients to China is considerably less than one half the expense of supporting them in the asylum for one year. This estimate includes everything, even to the cost of experienced attendants to care for them while making the voyage. Aside from the expense of caring for these people, the question of additional room gained by their removal is one of great importance.

An effort should be made to induce the Legislature to memorialize Congress with the view of devising some plan under which all Chinese who are now inmates of our asylums, or who may hereafter become inmates, may be returned to their native country.

#### RELIGIOUS SERVICES.

Religious services have been held weekly—on Sabbath afternoons—much of the time for the past two years, in the Social Hall. The clergymen of every denomination in this city were invited to hold services, with the understanding that if, after trial it was thought to be productive of good, the services should be regularly continued, unless some special reason might prevent. Five ministers responded to the invitation, and as the patients have evinced such an interest in the services it has been considered best to continue them. The hall is comfortably filled

each Sabbath by an orderly and attentive audience. An organ has been purchased from the Fancy Work Fund, several dozen chapel service books have been procured, a good choir has been organized, and the singing is excellent. Many of the patients derive more comfort and enjoyment from this than from any other diversion that has been offered them.

Each minister is paid \$5 for each service held.

#### EMPLOYMENT.

Under the patient management of Mrs. Ramsell, the Matron, and with the kindly aid of the attendants, a system has been inaugurated of giving many of the women useful and pleasant employment in the way of knitting, crocheting, embroidery, and the making of a variety of fancy articles; the proceeds of the sale of which have been devoted to a special fund, to be used for the purchase of books and other things most needful for the amusement of the female patients.

This plan was not adopted with a view of pecuniary profit, but rather as a means of whiling away the tedium of asylum life.

#### AMUSEMENTS.

Except during the warm summer weather, weekly entertainments have been regularly provided for the patients. These entertainments have been varied with a view of gratifying the tastes of all so far as practicable. Some theatrical plays have been furnished by the attendants, they being well rendered, and much appreciated. A vocal and instrumental concert once a month, under the management and leadership of Dr. Hoisholt, has proved quite a feature.

Probably the most novel and enjoyable entertainment that was ever had in the history of this asylum, was given on the evening of Washington's birthday; it being a grand mask calico ball. The costumes for the ladies were made by the female attendants and patients. Those for the gentlemen were made by that ever faithful and ingenious servant of the State, Mr. T. W. Eaves, and although made from cheap grades of calico, yet such taste and harmony was exhibited in the blending of the various colors as to render them peculiarly rich and attractive in appearance. The grand march presented a novel spectacle, with nearly a hundred well sustained characters on the floor.

The amusement and gratification it afforded the patients more than compensated for all the trouble entailed. The event furnished a subject for discussion long after its occurrence, and the monotony and humdrum of asylum life was lessened for a time at least.

#### BEREAVEMENTS.

The biennial period now drawing to a close has had its bereavements. Three trusted servants of the State in the employ of the asylum have passed to their final reward.

Charles Ruoff, on account of failing health, tendered his resignation in March, 1889, after a continued service of twenty-nine years, and he died on the eighth day of May, 1889. He always merited the confidence of the management for punctuality, and for the faithful manner in which

he discharged the important duties of Night Watchman for so many years. Mr. Ruoff was a musician of considerable ability; and in this, and other ways, rendered material aid in affording amusement and diversity for the religious form.

sion for the patients. His loss is deeply felt.

On April 23, 1889, Mr. Jos. B. Watson, the Supervisor, died after a tedious and painful illness. The trying position which Mr. Watson so ably filled was a constant proof of his remarkable fitness and adaptability. A more zealous, painstaking, efficient, and discreet officer one seldom meets. I speak from an experience gained through the most intimate, confidential relations with him from the time I assumed control of the asylum, and at the time when his familiarity with details made him an indispensable factor in the successful conduct of the affairs of the institution. With all due respect and credit to his memory, be it said that he was never found deficient in discretion and sound judgment. In all his actions he was ever influenced by the highest standard of moral excellence. He was just and honorable, because it was most suitable to his tastes. He was ever gentlemanly in bearing, for the reason that it was an instinct of his noble nature. His devotion to duty was remarkable; and with conscientious regard to precision and detail, he continued his services contrary to the advice of the medical staff, and at a time when only the bravest heart could brook such physical pain. Full of hope to the end, he bore his sufferings patiently and uncomplainingly, and ended his career as an honorable, upright, and polished gentleman.

Dr. William Augustine Washington, the First Assistant Physician, died of apoplexy on September 4, 1889, at San Diego, where he had gone in quest of health. He had been ailing for some time, but performed his accustomed duties to within a few days of his death. His sudden demise was unexpected, and was a terrible shock to his family

and his numerous friends.

Dr. Washington was a lineal descendant of the Washington family, around the name of which clusters a halo of memories of self-sacrifice, liberty, and patriotism. He was born on the bank of the Potomac River, in Westmoreland County, Virginia, on March 5, 1833, and was at the time of his death fifty-six years, five months, and nineteen days old. His medical education was obtained at the Virginia Medical College, from which he graduated on March 9, 1858. He was early married to Miss S. J. James, who survives him. To them were born seven children; four of whom, three daughters and a son, are living. From the time he graduated in medicine to the close of his life, his time was occupied in the practice of his profession. His early career as a physician was spent in his native State, in South Carolina, and in Maryland. In 1872 he came to California, and practiced for a time in Vallejo. In 1873 he moved to Merced, where he enjoyed an excellent practice for eight years, moving from there to San Francisco. After a year's residence there, he came to this city, and was in 1886 elected an Assistant Physician at the asylum.

Dr. Washington was one of the most conscientious physicians I ever knew, both in regard to his duty to his patients and his professional fellows. He was a close observer of the ethics of his profession, and would never knowingly infringe upon the rights of others. In all his obligations to the sick he was as true as the needle to the pole. His visits to the sick chamber were benedictions. His genial smile, warm grasp of

the hand, his assurance of tenderness and sympathy, and his cheering words were oftentimes more potent than the resources of the pharmacopæia. His friendships were true and lasting, and the individual in the humblest walk in life could ever approach him in confidence of meeting with recognition and a hearty response. His attitude before his fellow man was ever gauged by a just sense of respect for the rights of others; hence, arrogance and bigotry were as foreign to his nature as would be perennial bloom on glacier mountains in polar seas. In his views on all subjects, he was liberal and free from fanaticism. His gentlemanly instincts bore him above caprice and contumely, while comity of manner and the due observance of the social amenities were singularly characteristic of the man.

Home was made more sacred through the richness of his bright example as husband and father; for with his family he was kind and indulgent, and his heart glowed with affection. In the daily routine of his duties to the sick the purity and sweetness of his generous sympathy illuminated his face with a benign expression that reigned as the countenance of his soul. Hence it was that among the suffering and sorrowing he was greatly appreciated; and when the sad news came that his life was ended, many hearts were made desolate. Even from the asylum wards, where he had so recently labored, came expressions of sorrow from those who had lost their true friend and sympathizer.

While he loved to be appreciated for his own true worth, yet public notoriety and eclat were inimical to his tastes, and were embarrassing in the extreme. No one was freer to accord to others the award of merit. Nevertheless, ostentation and vainglory he utterly despised.

He was a man of pure thought and of bright example, and his influence was salutary and benign. Constancy and integrity were distinctive marks of his character, and he died as he had lived, a trusted friend, affectionate husband, devoted father, good citizen, faithful, skillful, and unpretentious physician.

#### ACKNOWLEDGMENTS.

During the incumbency of my esteemed predecessor, Dr. W. H. Mays, an appeal was made to the newspaper press throughout the State for gratuitous copies of the various journals for the use of the patients. It affords me the greatest pleasure to hereby express my gratitude for these continued favors. The following are still regularly received and distributed among the patients:

Daily.—San Francisco Call, Daily Alta, Courier de San Francisco, Abend Post, Evening Post, Stockton Independent, Evening Mail, Sacramento Record-Union, Sacramento Bee, San José Herald, Fresno Republican, Virginia City Chronicle, San Bernardino Courier, Sonoma Democrat, Daily Morning Republican, Stockton Republican, La Voce del Populo.

Weekly.—San Francisco Chronicle, Examiner, Weekly Post, Journal of Commerce, Report, Spirit of the Times, Jewish Progress, Rural Press, Stockton Record, Franco-Californian, Stockton Independent, Amador Dispatch, Anaheim Gazette, Biggs Argus, Colusa Sun, Contra Costa Gazette, Dixon Tribune, Ione Valley Echo, Kern County Californian, Los Angeles Tribune, Los Angeles Weekly Herald, Los Angeles Times Mirror, Lakeport Democrat, Lodi Sentinel, Livermore Echo, Marysville Appeal, Ontario Record, Placer Argus, Placer Republican, Santa And

Standard, Santa Clara Journal, San Diego Union, Sonora Democrat-Banner, San Benito Advance, Visalia Delta, Post-Intelligencer, Gridley Herald, Plumas National, The Pacific, Petaluma Courier, Bedrock Democrat, Tulare County Times, Catholic Review, Calaveras Chronicle, Cloverdale Reveille, Rohnerville Herald, Lyon County Times, Mariposa Gazette, Placer Herald, Tuolumne Independent, Lake County Avalanche, Weekly-Disseminator, Yolo Mail, Tulare Register, San Miguel Messenger, Oregon Statesman, Stanislaus News, Sierra Valley Leader, Galt Gazette, Scientific Press, Calaveras Prospect, Colusa Herald, Der Deutsche Amerikaner, Contra Costa Democrat, Porcupine, Scott Valley News, Tacoma News, Winters Express, Inyo Register, Inyo Independent, Western Watchman, Mendocino Beacon, Las Gatos News, Weekly Reveille, Corvallis Gazette, Salinas Democrat, The Inlander, Virginia Chronicle, Mountain Messenger, Monitor.

I also take pleasure in expressing my obligations to the following persons for their kind assistance in furnishing amusement for the patients, and for large contributions of fancy work, magazines, periodi-

cals, books, etc.:

Mrs. and Miss Edith Eaves, Mrs. S. D. Abramsky, Misses Louisa and Emma Cordes, Misses Gertie and Amy Hopkins, Miss Gertie Lang, Miss Nannie McCarty, Miss Mary Miller, Miss Esther Marks, Miss Ada Wheaton, Miss Nellie S. White, Miss Parks, Mrs. Gifford, Misses Nellie and Mamie Miller, Misses Myrtle and Pearl Abbott, Miss Nellie Deeble, Mr. Ira D. Ladd, Mr. M. Wenk, Mr. William Jones, Mr. E. Sylvia, Mr. G. Earle, Mr. L. Harkness, and the Stockton Sing Verein, comprising Messrs. Schneider, Wirth, Simon, and Felchin.

Thanks are specially due to Miss Eliza Lang and Mr. H. Prangley, for their kind assistance on various occasions in drilling the attendants

for our theatrical entertainments.

It is very necessary that those having the immediate care of the insane should be possessed of special qualities of heart and temperament. In fact, one who does not have perfect self-control is out of one's sphere when on duty in the wards of an asylum. It is not surprising, then, that in an institution giving employment to so large a number, that some are found, who, upon trial, prove to be wholly unfitted for the work. The rule has been to select from the large number of applicants only those who give the very best promise of success without any regard to personal favoritism.

A few have been dismissed who had not the necessary qualifications, or for violation of the rules. But I venture the assertion, that taken as a whole, no more intelligent or trustworthy body of men and women is to be found in any asylum anywhere, than those who do service in the capacity of attendants at this institution. I take this occasion to publicly express my thanks to them for the faithful, intelligent, and zealous manner in which they discharge their duties, and for the constant courtesy and respect which they have shown me.

To all the employes and officers whom I am necessarily more closely associated with in the management of the asylum, I am ever conscious of my debt of gratitude. Their uniform constancy and their regard for the best interests of the asylum are most commendable.

To Drs. Young, Phillips, and Hoisholt, I have reason to be grateful. They have ever shown a kindly in erest in the successful management of the institution, have always been willing to aid me, and lighten my

burdens in every way they could, and my association with them has been most pleasant and gratifying. Through their kind assistance, considerable pathological work has been done since the completion of our new morgue, and a systematic record is being kept of the more important cases.

In conclusion, I desire to thank you, gentlemen of the Board, individually and collectively, for your uniform courtesy and kindness, which I assure you, in all sincerity, is most heartily appreciated.

The comfort, happiness, and general welfare of the patients, and the asylum in all its varied interests, have been objects of daily solicitude

If, during my endeavors to satisfy your most sanguine expectations, I have succeeded in meeting your approval, I shall feel more than repaid for all my efforts.

H. N. RUCKER, Medical Superintendent.

Остовек 10, 1890.

# STATISTICAL TABLES, 1890.

#### MOVEMENT OF PATIENTS.

	Males.	Females.	Total.
Number of patients July 1, 1889	1,140 242	440 84	1,580 326
Whole number under treatment	1,382	524	1,986
Discharged recovered. Discharged improved Discharged unimproved Discharged not insane Died Escaped	4	22 15 8 20	134 45 19 4 111 5
Discharged, died, and escaped	253	65	318
Number remaining June 30, 1890	1,129	459	1,588

#### GENERAL STATISTICS.

Number of Admissions, Recoveries, Deaths, etc., from Foundation to July 1, 1890.

,										-,	
YEAR.	Admissions	Recoveries	Discharged Uncured	Deaths	Escaped	Number Resident at the Close of each Year	Increase	Decrease	Whole Number Treated	Per Cent of Recoveries to Admissions	to the Number Treated
-							<u> </u>				
1851	13	6		1		6	6	<b>-</b>	13	46.15	7.69
1852	124	50	6	10		62	56		130	40.32	7.69
1853	160	108	8	12		103	41		222	67.50	5.40
1854	202	150	13	21		134	31		305	74.00	6.89
1855	214	168	16	18		162	28		348	78.50	5.20
1856	210	126	15	23		172	10		382	60.00	6.02
1857	206	81	17	28		188	16		378	39.32	7.33
1858	244	112	20	32		273	85		432	45.90	7.41
1859	276	112	22	49		370	97		549	40.58	8.91
1860	248	123	21	54	10	417	47		618	<b>4</b> 9.59	8.73
1861	198	154	34	33	14	416		1	615	77.77	5.36
1862	301	127	14	65	12	499	83		717	42.19	9.06
1863	252	105	17	47	12	583	84		751	41.67	6.26
1864	219	101	25	82	12	581		2	802	46.12	10.22
1865	268	93	15	82	27	632	51		849	34.70	9.66
1866	279	131	13	62 89	12 9	693	61 76		911	46.95	6.81
1867	313	125 146	14			769	84		1,006	40.00	8.80
1868	387 482	225	13 16	134 159	10 15	853 920	67		1,156 1,335	37.73 46.68	11.59 11.91
1869 1870	562	220 221	36	156	22	1 047	127		1,482	39.32	10.55
1871	523	245	36	176	23	1,047 1,090	43		1,570	46.84	11.21
1872	506	240	33	188	12	1,123	33		1,596	47.43	11.78
1873	401	185	19	152	12	1,156	33		1,524	46.13	9.97
1874	524	209	46	178	23	1,224	68		1,680	39.88	10.59
1875	615	259	70	181	26	1,302	78	<b>-</b>	1,839	41.95	9.84
1876	414	252	60	172	18	1,214	'0	88	1,716	61.26	10.03
1877	201	. 83	30	100	7	1,195		19	1,415	41.29	7.06
1878	219	80	19	106	7	1,202	7		1,414	36.53	7.49
1879	106	58	$\tilde{16}$	100	7	1,127	·	75	1,308	54.71	7.64
1880	114	40	9	72	4	1,116		ii	1,241	35.08	5.80
1881	149	54	16	$\dot{92}$	ī	1.102		14	1,265	36.24	7.19
1882	179	71	_11	93	11	1,095 1,184		7	1,281	39.67	7.27
1883	258	68	10	86	5	1.184	89		1,353	26.36	6.35
1884	264	113	22	87	11	1,215	31		1,448	42.80	6.01
1885	341	60	19	87	11	1,379	164		1,556	17,60	5.59
1886	504	201	45	135	16	1,486	107		1.883	39.86	7.17
1887	447	179	27	133	8	1,553	67		1,900	43.23	7.00
1888	463	214	19	130	7	1,646	93		2,016	46.22	6.00
1889	529	194	259	134	8	1,580   1,588		66	2.175	36.67	8.48
1890	326	138	64	111	5	1,588	8		1,906	42.33	5.82
Totals	12,208	5,407	1,166	3,670	377		1,871	283			

TABLE A.

# Counties from which Patients were Admitted.

Counties.	Males.	Females.	Total.
Alameda	28	16	44
Amador	2	1	1 3
Butte	5	_	🖁
Calaveras	2		) ,
Contra Costa	. <u> </u>	2	4:
El Dorado.	. <u>2</u>	_	1 2
Fresno	13	1	14
Inyo	1	ĺi	2
Kern	9	1 1	10
Los Angeles	37	13	
Marin	2	10	50
Mariposa	5		• 2
Mandagina	9	- <b></b>	5
Mendocino	‡		<u>.</u>
	1 1		7.
Monterey	4	<del></del> -	4
Nevada	2	1	3
Orange	2	1	3 -
Placer	2	2	4
Sacramento	16	1	17
San Benito		1	1
San Bernardino	11	3	14 .
San Diego	10	1	П
San Francisco	25	18	43
San Joaquin	18	13	31
Shasta	7		7
Sierra	4		4
Siskiyou	2	2	4
Stanislaus	5	i i	6
Sutter	1		1
Tulare	10	4	14
Tuolumne	2	ı il	3
Yolo	ĩ	- 1	Ť
State Prison—Folsom	3		. 3
State Prison—San Quentin	ĭ		. ŭ
Totals	242	84	326
		!	

# TABLE B.

# Nativity of those Admitted.

Nativity of those Admitted.			
Nativity,	Males.	,Females.	Total.
United States.			
Alabama	1		1
California	12	6	18
Connecticut	1	1	
Delaware	ī	[	$egin{array}{ccc} 2 \\ 1 \\ 2 \\ 1 \end{array}$
Georgia	$\bar{2}$		2
Idaho	$\bar{1}$		1
Îllinois	6	3	9
Indiana	2	1	3
Indian Territory	$\overline{1}$		1
Iowa	7		7 1
Kansas	ĺ		1
Kentucky	4	1	5
Louisiana		1	1
Maine	1	1	2
Maryland	1		1
Massachusetts	8		8
Michigan	$\tilde{2}$	1	5 1 2 1 8 3
Missouri	6	1	7
Nebraska		1	1
Nevada	1		1
New Jersev	2		$\frac{1}{2}$
New York	15	4	19
North Carolina	1		1
Ohio	$\overline{4}$	2	6
Pennsylvania	5	3	1 6 8 2 1
Tennessee	$\tilde{2}$		2
Utah	1		1
Virginia	ī		1
West Virginia	ī		ĩ
Washington	ī		ĩ
Wisconsin	î		1
United States	14	8	22
Totals	106	34	140
Foreign Countries.			
			8
	7		
Austria	7 5	1	5
AustriaAzores	5		5
Austria Azores Belgium	5 2		$\frac{5}{2}$
Austria Azores Belgium Canada	5 2 7	3	5 2 10
Austria Azores Belgium Canada China	5 2 7 14	3 1	5 2 10 15
Austria Azores Belgium Canada China Denmark	5 2 7 14 7	3 1 1,	5 2 10 15 8
Austria Azores Belgium Canada China Denmark England	5 2 7 14 7 10	3 1 1, 3	5 2 10 15 8 13
Austria Azores Belgium Canada China Denmark England France	5 2 7 14 7 10 9	3 1 1, 3	5 2 10 15 8 13 10
Austria Azores Belgium Canada China Denmark England Krance Germany	5 2 7 14 7 10 9	3 1 1, 3	5 2 10 15 8 13 10
Austria Azores Belgium Canada China Denmark England Krance Germany Greece	5 2 7 14 7 10 9 19	3 1 1, 3 1	5 2 10 15 8 13 10 33
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland	5 2 7 14 7 10 9 19 1	3 1 1, 3 1 14	5 2 10 15 8 13 10 33 1
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy	5 2 7 14 7 10 9 19 1 17 4	3 1 1, 3 1	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica	5 2 7 14 7 10 9 19 1 17 4	3 1 1, 3 1 14	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira	5 2 7 14 7 10 9 19 1 17 4 1	3 1 1, 3 1 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico	5 2 7 14 7 10 9 19 1 17 4 1 1	3 1 1, 3 1 14 13 2	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway	5 2 7 14 7 10 9 19 1 17 4 1 1	3 1 1, 3 1 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia	5 2 7 14 7 10 9 19 1 17 4 1 1	3 1 1, 3 1 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Poland Poland Poland Poland Poland Poland Poland Poland Poland Poland	5 27 14 7 10 9 19 17 4 1 1 4 5	3 1 1, 3 1 14 13 2	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal	5 27 14 77 10 9 19 17 4 1 1 4 5 5	3 1 1, 3 1 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia	5 27 14 7 10 9 19 17 4 1 1 1 4 5 1	3 1 1, 3 1 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia Scotland	5 27 14 7 10 9 19 17 4 1 1 4 5 1	3 1 1, 3 1 14 13 2 3 1 1	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia Sectland Sectland Sectland	5 27 14 77 10 9 19 1 1 1 4 1 4 4 5 1	3 1 1, 3 1 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England Krance Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia Scotland Sweden Switzerland	5 27 14 70 99 19 17 4 1 1 4 5 1 2 2 4 5	3 1 1, 3 1 14 14 	5 2 10 15 8 13 10 33 1 30 6
Austria Azores Belgium Canada China Denmark England France. Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia Scotland Sweden	5 27 14 77 10 9 19 1 1 1 4 1 4 4 5 1	3 1 1, 3 1 14 13 2 3 1 1	5 2 10 15 8 13 10 33 1
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia Scotland Sweden Switzerland Wales Unknown	5 27 14 70 19 19 17 4 1 1 4 5 1 2 2 4 .5	3 1 1, 3, 1 14 13 2 2 3 1 1	5 2 10 15 8 13 10 33 1 30 6 1 1 7 6 6 1 1 2 2 1 5 5 5 5 5 6 7 6 8 7 6 8 7 8 8 8 8 8 7 8 8 8 8 8 8
Austria Azores Belgium Canada China Denmark England France Germany Greece Ireland Italy Jamaica Madeira Mexico Norway Nova Scotia Poland Portugal Russia Scotland Sweden Switzerland Wales	5 27 14 77 10 9 19 17 4 1 1 1 4 5 1 2 4 5 1 2	3 1 1, 3, 1 14 	5 2 10 15 8 13 10 33 10 33 10 7 6 1 1 2 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

# REPORT OF THE DIRECTORS OF THE RECAPITULATION.

NATIVITY.	Males.	Females.	Total.
United States	106 129 7	34 49 1	140 178 8
Totals	242	84	326

TABLE C. Age when Insanity first Appeared.

AGES.	Males.	Females.	Total.
Under 10 years	2		
Between 10 and 15 years	3		3
Between 15 and 20 years.	9	3	12
Between 20 and 25 years		l ğl	34
Between 25 and 30 years	43	9	52
Between 30 and 35 years	36	16	52
Between 35 and 40 years.	42	$\overline{12}$	54
Between 40 and 45 years	$\overline{11}$	$\overline{12}$	23
Between 45 and 50 years	16	9	25
Between 50 and 55 years	12	6	1.8
Between 55 and 60 years	$\overline{14}$	4	18
Between 60 and 65 years	. 8	1	9
Between 65 and 70 years	7		7
Between 70 and 75 years	4	1	5
Between 75 and 80 years	1		1
Unknown	9	2	11
Totals	242	84	326

TABLE D. Age at Time of Admission.

Ages.	Males.	Females.	Total.
Under 10 years Between 10 and 15 years Between 15 and 20 years	2 9	<u>1</u>	2 10
Between 20 and 25 years Between 25 and 30 years Between 30 and 35 years Between 35 and 40 years	20 36 35 38	6 8 12 14	26 44 47 52
Between 40 and 45 years Between 45 and 50 years Between 50 and 55 years Between 55 and 60 years	27 12 18	13 11 6	40 23 24 14
Between 60 and 65 years Between 65 and 70 years Between 70 and 75 years	10 8 6	1	16 8 7
Between 75 and 80 years	242	2 84	326

### TABLE E.

Cause of Insanity, as Stated in Commitments.

Cause of Insurvey, as Stated in Comme			
CAUSE.	Males.	Females.	Total.
Alcoholism	8	2	10
Spiritualism and alcohol	i		1
Masturbation and alcohol	$\bar{2}$		$\frac{1}{2}$
Cigarettes and alcohol	$\bar{1}$		1
Cigarettes and alcohol	l ī		ī
Haradity	13	7	20
Heredity Heredity and loss of children	1	$\mathbf{i}$	-ĭ
Heredity and religion	1	Ī	2
Heredity and masturbation	i		ī
Heredity and business troubles	2		1 2 1 2 7 1
Epilepsy	5	2	. 7
Epilepsy, tobacco, etc.	ĭ		l i
Masturbation	23		23
	11	3	14
Religious excitement	1	1	14
Troubles and religion	3	$\begin{bmatrix} 1\\2 \end{bmatrix}$	<u> </u>
Family troubles  Loss of property and family troubles  Loss of work and loss of friends	ခို -	1	o o
Loss of property and family troubles	Z	1	ò
Loss of work and loss of friends	2		2
Business troubles	2 2 4 8		4.
Injury to head.	8		8
Diseases of the brain	4	2	6
Softening of the brain	$ar{2}$		2
Mental worry and overwork		1	1
Spiritualism	1	3	4
In health and troubles	1		1
Ill health and loss of child		1	1
lll health	1	2	3
Nervous prostration	1		25324486214113113222311112111
Senility	3		3
Sunhilis	1		1
Syphilis and softening of brain Uterine disorder	1		1
Uterine disorder		3	3
Puerperal		2	2
Isolation	2		2
Irregular habits	3		3
Change of life	•	1	1
Exposure	1	_	ī
Excessive use of cigarettes	ī		ī
Disappointment.	2		2
Opium	ĺ		รั
Traumatic head injury	i		î
	1		î
Typhoid	1		1
Malaria	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Childbirth		1	4
Hysteria		1	4
Environment	1		Ţ
Severe injury		1	
La grippe Death of wife		1	1
Death of wife	1		1
Lead poison	1		1
Politics	1		1
Departure of friend for Europe		1	1
Absence from home and kindred	1		1
Fright from seeing a boy-made ghost	1		1
Fright from seeing a boy-made ghost		1	1
Death of father-in-law		1	1
Unknown	118	$4\tilde{2}$	160
•			
Totals	242	84	326
	_ <b></b> -	] 1	

TABLE F. Classification.

CLASS.	Males.	Females.	Total.
Mania	7	2	
Acute mania		19	8 70
Chronic mania	18	$\tilde{1}$	78 30
Recurrent mania	l îi	2	19
Sub-acute mania		l īl	4
Suicidal mania	2		9
Erotomania		1	ĩ
Religious mania	3	2	
Transitory mania	ì		ì
Mania a matu			ī
Monomania Molomaholia	13	3	16
Melancholia	25	14	30
Melancholia atton			ĭ
Acute melancholia	20	6	9
Chronic melancholia	. 5	4	]
Recurrent melancholia	. 2		
Puerperal melancholia		2	
Dementia	. 8	1	ĺ
Primary dementia	10	4	14
Secondary dementia Acute dementia	1 6	Ī	,
Acute dementia	. 2	l	
Chronic dementia	5		
Senile dementia	. 5	1	(
Partial dementia	11	3	1/
Alcoholic dementia	. 1		
Epilepsy	. 8		
Hypochondriasis	2	1	
Moral insanity	. 1		1
Delusional insanity	. 3		
Toxic insanity	l i	3	
Hysterical insanity		$\mathbf{\tilde{2}}$	
Alcoholism	5		
Not insane			

TABLE G.
Civil Condition.

242

84

326

CIVIL CONDITION.	Males.	Females.	Total.
Married	52 139 8 2 41	49 23 11	101 162 11 8 2 42
Totals	242	84	326

# TABLE H. Occupations.

· · · · · · · · · · · · · · · · · · ·	Males.	Females.	Total.
etress		1	
rchitect	1		
torneys at law	3		
iker	i i		,
ook agent	1 .		
pilermakers	2		
ridge builder	1 \		
binetmaker	1 \		
arpenters	8		
arriage painter	1		
hemist	1	II	
ity Marshal	1	{	
lerks	2	\	
ooks	9		}
oppersmith	1		
entist	1	\	.1
ish washer	1		
omestics	l	16	
ressmaker		. 1	[
ngineer	1		.]
ancy work	l	. 1	1
armers	25		.]
isherman	Ĭ		
lorist	î		
ardener	Î		
rocery clerk	Î		
uide.	Î	1	
larnessmaker	î		
lostler	Î		]
lousekeepers	l	3	ì
lousewives		44	
aborers	92	2	1
aundress	32	. 1	1
	i	-  *	1
aundryman	i		1
umber inspectorumberman	î		
lachinists	2		
(agnatia haglar	ī		1
lagnetic healer lechanics	2		1
inorg	8		il .
liners	°	1	1
		i	j
urse	5	-  -	1
ainters	1		1 .
aper hanger	i		1
hotographer	1		1
lasterer	li		1
riest	2		1
rinters			1
ailroad clerk			1
ailroad foreman	1 5		1
ailors			1
alesman	1		1
aloonkeeper	$\frac{1}{2}$		1
chool teachers	2	1	
eamstress		. 1	
neepherders	4		1
neep owner	1		1
oemaker	1		
eamboatman	1		1
orekeepers	4		
ailor and musician	1		-
	1		
anner	2		
eamsters		1	
eamsters ramp	1		
eamsters ramp	1		.
eamsters ramp	1 8	3	
eamsters ramp. /aiter o occupation	1	3 8	.]
eamsters ramp	1 8		

TABLE I.

Cause of Death.

CAUSE.	Males.	Females.	Total,
Consumption	7	2	
Paralysis	ġ	3	1 2
Paralysis Pulmonary tuberculosis	7		1 3
Maniacal exhaustion	4	1	1
Epileptic fit	3	î	1 2
Marasmus	š	l ī	1 3
Senile decay	ĭ	3	1 3
Anonlevy	3		}
Apoplexy Heart disease Heart failure from senile exhaustion	. 3		
Heart failure from senile exhaustion	ĭ		l i
Suicide	3		1 :
General paresis	ខ្ម		
Chronic nonhritis	3 3 1		
Chronic nephritis Pyelo nephritis	1		1 :
Inanition			
Organia diagga of brain	2 2 2 2 2 2 2 2	1 1	
Organic disease of brain	2	1	1 9
Meningitis Symmetrical gangrene and exhaustion Cerebral paralysis	2		2 2 2 2 2 2
Symmetrical gangrene and exhaustion	2		1
Cerebral paralysis	Z	[	[ 2
Bright's disease Fatty degeneration of the heart	2		. 2
Fatty degeneration of the heart	2		2
Heart and Bright's disease	ī		1
Cerebral hemorrhageInflammation of the bowels	2		- 2
Inflammation of the bowels	2		2
Mesenteric tuberculosis		2	2
Hydrocephalus externus acutus	2		1 2 2 2 2 2 2 1
Gastritis		1	1
Exhaustion from acute mania		1	1
Syphilitic disease of brain	1	l	1
Ovarian tumor Progressive bulbar paralysis		1	i <u>1</u>
Progressive bulbar paralysis	1	_	ī
Heart clot	ī		i
Cerebral anonlexy	ĩ		ĺ
Cerebral apoplexy Cerebral effusion Cerebral meningitis with effusion	ī		î
Cerebral meningitis with effusion	ī		ĺ
Typho-malarial faver	-	1	i
Typho-malarial fever Exhaustion from chronic insanity and paralysis	1	-	i
Embolic thrombosis of brain	i		î
Rupture of aorta ascendens	i		î
Valvular disease of the heart	i		î
Modia etinal absence	i		î
Media stinal abscess Impaction of food in esophagus	. 1		ī
Bronchitis	· 1		i
Optombile matter and	_		i
Dalarmai pneumonia	1		i
Pulmonary œuema	1		1
Catarrhal pneumonia Pulmonary œdema Descending degeneration of spinal chord Accidental strangulation	1		i
Accidental strangulation	1		
Syncope	1		1
Hæmoptysis	1		1
Pneumonia	1		1
DropsyCancer	1		1
Cancer.	1		1
Cerebritis	1		1
Diarrhœa	1		1
Suppurative cystitis	1	·	Ţ
Suppurative cystitis		1	1
•			
Totals	91	20	111

# ACCOUNT OF ARTICLES CONSUMED AND ANNUAL EXPENDITURES AT THE ASYLUM.

Articles.	Value.
Flour	\$10,027 40
Meat	20,750 18
Sugar	4,115 14
Tea	893 00
Syrup	
Potatoes	
Butter	8,365 85
Coffee	
Fish	1,049 00
Eggs	535 69
Beans and pease	865 93
Rice and cracked wheat	
Cornmeal	
VegetablesSalt	
Vinegar	86 31
Small groceries	
Shear groceries	
Soap, starch, and potash Drugs and medicines	1,753 95
Liquors	332 25
Tobacco	
Dry goods	
Clothing and hats	
Shoes and leather	
Blankets	1,619 50
Furniture and crockeryware	2,669 82
Hardware and tinware	1,219 16
Kedding	1.671.86
Brooms and brushes Hay, grain, and feed Garden seeds and tools	442 49
Hay, grain, and feed	4,298 82
Garden seeds and tools	365 52
Lumber	1,140 77
Lumber Repairs and improvements	2,664 24
Paints, oils, and glass Books and stationery	1,750 42
Books and stationery	826 61
Gas and oil	2,574 15
Fuel	
Castings, pipes, and iron	300 00
Sarriage of Directors and Constant	1,556 60
Advertising for supplies	484 00
Returned escapes	263 65
Payroll and wages	
Miscellaneous	
	2,001 10
Total	\$223,033 87

### COST OF THE DIFFERENT DEPARTMENTS.

DEPARTMENTS.	Cost.
	0000.
Male kitchen and dining-room.	\$39,289 0
Male department	63 088 a
Female kitchen and dining-room	18,906 9
Female department	37,378 5
Polyom	11 /15 0
Bakery Engine houses and laundries	11,415 0
Engine nouses and ladindres.	9,330 2
Farm, garden, and dairy	10,228 6
Repairs and improvements	5,555 4
General mechanic's shop	1,100 0
Drug store	2,225 5
Office	750 9
Advertising for supplies	300 0
Advertising for supplies Services of Directors and Secretary	1,556 6
Medical Superintendent	5,367 3
Medical Superinsendent	4 200 0
Assistant Physician	4,300 0
Assistant Physician	4,300 0
Assistant Physician	4,300 0
Miscellaneous	3,634 0
	<del>-</del>
Total	\$223,033 8
	, ,,,,,,,,,

### AVERAGES.

Months.	Average No. of Patients Daily.	Average Daily Expenses.	Average Cost per Capita per day (Cts).	per Capita
1889—July	1,592	\$562 71	35.3	\$10 94
August	1,606	609 00	37.9	11 75
September	1,610	588 38	36.5	10 95
October	1,604	618 59	38.6	12 06
November	1,589	662 65	41.7	12 51
December		641 89	40.6	12 58
1890—January		637 28	40.4	12 52
February	1,577	643 26	40.8	11 42
March	1,587	596 54	37.6	11 65
April	1,601	625 34	39.1	11 73
May	1,602	568 83	35.5	11 00
June	1,604	581 70	36.2	10 86
Yearly averages	1,594	\$611 05	38.3	\$11 66

# PRODUCTS OF THE FARM, GARDEN, AND DAIRY.

ARTICLES.	Amount.
Beats, pounds Tomatoes, pounds Parsnips, turnips, and carrots, pounds Pears and string beans, pounds Pears and string beans, pounds Egg plant and radish, pounds Green corn and cucumbers, dozens Gelery, pounds Caulifiower and cabbage, pounds Onions, pounds Lettuce, dozens Peppers and okra, pounds Watermelons and cantaloupes, dozens Hay and alfalfa, tons Apples, pears, apricots, and peaches, pounds Grapes, pounds Beef, pounds Beef, pounds Beef, pounds Beef, pounds Chickens, number used	28,526 3,890 48,590 1,825 5,741 97 31,286 19,780 643 980 50 100 22,880 11,490 4,175 54,655 532

### RECEIVED FROM GERLACH & FISK.

#### LIVE STOCK SOLD.

STOCK.	Number Sold.	Price.
Calves Bull Horse	26 1 1	\$152 75 25 00 15 00
		\$192 75

#### LIVE STOCK ON HAND.

	<b>Этоск.</b>	Number.
Bull Yearlings Dalves	etc.	14 9
Coultry': chickens,	:te	

# BIENNIAL REPORT OF THE TRUSTEES

OF THE

# STATE INSANE ASYLUM AT AGNEWS,

SANTA CLARA COUNTY, CALIFORNIA.

1890.



SACRAMENTO:

STATE OFFICE, : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

# OFFICERS OF THE ASYLUM.

# BOARD OF TRUSTEES.

	B. D. MURPHY, Chairman	San José
	0. A. HALE	San José.
	у. косн	San José.
	A. McDONALD	
	W. D. TISDALE	San José.
	SECRETARY AND	TREASURER,
	L. G. NESMITH	San José.
,	RESIDENT O	FFICERS.
	F. W. HATCH, M.D.	Medical Director.
	W. F. PRATT, M.D.	First Assistant Physician.
	EMILY McB. YEARGAIN, M.D.	Second Assistant Physician.
	E. R. BAILEY	Secretary to Medical Director.
	F. C. YOUNG	Steward.
	Miss M. A. COYNE	Matron.
	L. M. NAGEL	Steward's Clerk.
	T. D. ARMSTRONG	Supervisor.

## REPORT.

To his Excellency R. W. WATERMAN, Governor of the State of California:

SIR: The Trustees of the State Insane Asylum at Agnews herewith respectfully submit to you their biennial report covering the two fiscal years ending June 30, 1890, showing the financial and general condition of the institution, and the various building operations carried on dur-

ing the two years referred to.

Since the last report made by the Trustees, the title and status have been changed; the former from "The California Hospital for the Chronic Insane," to "The State Insane Asylum at Agnews;" the latter from an Hospital for Chronic and Harmless Cases, to an Asylum of General Commitment. The Act making this change took effect March 11, 1889. Prior to that time patients had been received, in terms of the enabling Act, from the other asylums, as follows:

October 30, 1888, seventy-five patients received from Napa—fifty males and twenty-five females. November 26, 1888, received from Stockton two hundred patients—one hundred and forty males and sixty females. On December 12, 1889, one male patient was transferred from Napa. February 2, 1889, one male was transferred from Stockton. February 18, 1889, one hundred patients were transferred from Napa—sixtyfive males and thirty-five females. Making the total number transferred from Stockton and Napa up to February 18, 1889, three hundred and seventy-seven.

The first commitment made under the Act of March 11, 1889, was on the twenty-sixth of that month. Since that date there have been three hundred and one patients admitted, two hundred and nine being males, and ninety-two females; making the total number received six hundred

and seventy-eight.

The discharges, elopements, transfers, deaths, etc., are as follows: Discharged recovered, forty-seven; discharged improved, twenty-two; died, seventy-one; discharged unimproved, seven; not insane, one; transferred to Stockton, one; eloped, two; leaving in the asylum, June 30, 1890, five hundred and twenty-seven patients.

The excessive mortality, apparent in this statement, is explained by the fact that a majority of the patients transferred from Stockton and Napa were long past middle life, and many of them physically feeble.

We would report the completion of Ward Buildings Nos. 2 and 4, and carpenter shop and morgue (referred to in last report as in process of construction). These buildings were finished on or about June 10,1889. As soon as the appropriation made for the purpose by the last Legislature was available, the two ward buildings referred to were furnished, and are now occupied.

In addition to these buildings, the last Legislature made an appropriation of \$125,000 for an administration building, and \$80,000 for an additional ward building. On September 13, 1889, contracts were let for both of these buildings. They are at this date very near com-

The same Legislature having made appropriations for the furnishing of these buildings, they will be occupied within a few months.

REPORT OF THE TRUSTEES OF THE

During the last two years Ward Buildings Nos. 2 and 4 have been supplied with a heating apparatus and fire service. On May 13, 1890, a contract for gasworks was entered into. These works will soon be completed. From the appropriation made for that purpose a watchman's electrical clock and fire alarm system has been placed in the buildings. In addition to the work referred to, subsidiary sewers have been constructed, connecting Ward Buildings Nos. 2 and 4 with the main temporary sewer. Concrete floors have been laid in boiler and engine house and Ward Building No. 1, and railroad track through basement, connecting latter building with the kitchen. There have also been constructed exercising yards for patients, in the rear of Ward Buildings Nos. 1, 2, and 4. A cow barn, and shed for the protection of farming implements, and a propagating house, have been erected. Grading, graveling, and the planting of trees and shrubbery have been carried on as well as the limited means at hand would permit. The asylum, as it now stands, that is, with administration building and Ward Building No. 3 completed, will accommodate about eight hundred patients.

From the commitments made during the last two years we feel confident that this number will be attained during the next two years. When the proximity of this asylum to the center of population in the State is considered, it will be apparent that a majority of the commitments will naturally be made to this institution. During the last year, out of nine hundred and eleven patients committed to the asylums of the State, four hundred and seventy-nine were from points within forty miles of Agnews. The asylums at Stockton and Napa are to-day in the same crowded condition they were when this asylum relieved them. In view of this fact, we deem it imperative that some provision should be made for the reception of the patients in excess of the number which could now be accommodated in the asylum, and for this purpose we would suggest the advisability of an appropriation for additional buildings. Two ward buildings, accommodating three hundred and sixty patients, can be erected at the low per capita of about \$485. This is made possible by the fact that the subsidiary buildings of the institution, such as kitchen building, bakery and laundry, boiler and engine house, and machinery, gasworks, carpenter shop and morgue, and water supply, are of a capacity for ward buildings sufficient to accommodate one thousand five hundred patients. Another point in favor of increasing the capacity of this asylum is the fact that by so doing the per capita cost of maintenance can be materially reduced.

We would call your attention to another important point in this connection: The fact that this asylum, being contiguous to the center of population of the State, comprising the great counties of San Francisco, Alameda, Santa Clara, Santa Cruz, San Mateo, Monterey, etc., will make it a favored institution among the friends and relatives of the unfortunates confined therein, on account of the railroad facilities which will enable them to leave their occupations, visit the asylum, and return on

the same day, at comparatively nominal expense.

In the last report, the Trustees asked for an appropriation for the improvement of grounds, of \$20,000. This the Legislature did not see fit to grant, which is to be regretted, as the nature of the ground makes it imperative that considerable work be done on the same, and especially in the planting of trees, etc.; this loss of two years is most unfortunate. We sincerely trust that the present Legislature will make an appropriation sufficient for this purpose. Another pressing necessity is a permanent sewerage system. As was stated in the last report, there is now a temporary sewer, emptying into a creek a short distance from the asylum buildings. This is most objectionable, being a menace to the health of those at the asylum, and the residents in that vicinity. The city of San José has been compelled to do away with a sewer emptying into the creek near this point, and to build, at large expense, a brick sewer to tide water.

It is the judgment of the Trustees, that a permanent sewer should be constructed from the asylum buildings to tide water on the bay, some four miles distant, and an appropriation is asked for this purpose.

We do not deem it necessary to emphasize the necessity of proper appropriation for the regular support or maintenance of the institution, feeling sure that the Legislature will grant the sum asked without any urging on our part.

For financial report of expenditures made from the appropriations of 1887-89, covering the period from July 1, 1888, to June 30, 1890, see

report of Secretary and Treasurer, herewith appended.

For detailed statement of the general affairs of the asylum, necessity of appropriations, movement of patients, product of farm, etc., we would refer you to the report of the Medical Director, accompanied by the Steward's report, which are herewith annexed.

Below you will find statements of estimated required appropriations

for the next two fiscal years.

Respectfully submitted.

B. D. MURPHY, Chairman, O. A. HALE, V. KOCH, A. McDONALD, W. D. TISDALE,

Trustees.

## STATEMENT OF ESTIMATED APPROPRIATIONS REQUIRED.

Maintenance, salaries, etc., of the asylum	\$275,000 0	0
Main sewer	20,000 0	Ó
Improvement of grounds	20,000 0	Ō
Additional buildings	175,000 0	

## REPORT OF SECRETARY AND TREASURER.

REPORT OF THE TRUSTEES OF THE

To the honorable Board of Trustees of the State Insane Asylum at Agnews: Gentlemen: Herewith find statements of expenditures for the two fiscal years ending June 30, 1890.

These expenditures are divided into two statements, as they are made from the appropriations of 1887, which were for the thirty-ninth and fortieth fiscal years; and of 1889, available during the forty-first and forty-second fiscal years.

For expenditures of appropriations of 1887, made prior to July 1, 1888, see last biennial report.

Expenditures from July 1, 1888, to June 30, 1889:

Support of hospital:		
Asylum	<b>\$6</b> 8,819 <b>7</b> 9	
Administration	2,743 92	
	<del></del>	\$71,563 71
Furnishing		18,477 91
Improvement of grounds		2,500 00
Purchase of live stock		849 47
Additional buildings:		
Contracts for Ward Buildings Nos. 2 and 4	\$119,199 70	
Contract for machinery	23,334 00	
Building expense—Architect's fees, Superintendent of Con-	,	
struction, surveying, advertising, etc.	6,294 87	
Other buildings:	-,	
Reservoir	2,472 00	
Completion of smokestack	3,365 00	
Gas machine	3,000 00	
Subsidiary sewers	872 58	
Concrete floors and railroad track	2,857 00	
Extra work on machinery	1,968 88	
Extra work on machinery Extra work on second story laundry building	1,634 00	
Carnenter shop and moreue	4,798 00	
Carpenter shop and morgue  Plumbing, painting, sewers, and extra work on various build-	1,.00 00	
ings and machinery	4,073 97	
ingo and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon and incommon	1,010 01	170,870 00
1 1000		2.0,010 00
Appropriations of 1889:		

Support or maintenance of asylum	\$200,000 00
Administration building	125,000 00
Additional ward building	80,000 00
Heating	20,000 00
Lighting	25,000 00
Furnishing three ward buildings	10,000 00
Furnishing administration building	10,000 00
Watchman's clock indicator	
11 MTVMAN N VAVVE MAN-VMTV1 000 - 11 000 1 1 1 1 1 1 1 1 1 1 1 1 1	-,,,,,,,

Contracts already awarded, and liabilities created against these various appropriations, will exhaust the same during the forty-second fiscal year.

Purchase of live stock....

Herewith find statement of expenditures of appropriations of 1889, covering the period between July 1, 1889, and June 30, 1890:

Support of hospital: Asylum	89,683 2,309	81 44	\$91, <b>993</b> 25
Purchase of live stock			2,406 15
Furnishing three ward buildings			7,557 60
Heating			9,886 37
Lighting			443 62
Additional buildings: Administration building:			
Building expense	\$6.021	08	
Contract for building	\$6,021 67,497	00	
			<b>73,518 08</b>
Ward building No. 3:	<b>29 701</b>	10	
Building expense. Contract for building	\$3,791 44,771	50	
			48,562 60
CONTINGENT FUND.			•

## Receipts and disbursements from July 1, 1888, to June 30, 1890:

#### RECEIPTS.

Cash on hand July 1, 1888 Pasturage	
Fruit and produce Miscellaneous	
Hav	1,936 36
Live stock Pay patients	
Lay parteness.	
DISBURSEMENTS.	\$6,411 68
Expenses, asylum Expenses, administration	\$636 25 1,236 94
Expenses, administration Expenditures account, exhausted appropriations Cash on hand June 30, 1890	230 34 4,308 15
•	\$6,411 68
Respectfully submitted.	

- ·

L. G. NESMITH, Secretary and Treasurer.

San José, Cal., October 8, 1890.

## REPORT OF MEDICAL DIRECTOR.

To the honorable Board of Trustees of the State Insane Asylum at Agnews: Gentlemen: I herewith submit to you my reports for the two years

ending June 30, 1890.

From the summary which follows, it will be seen that we commenced the year July 1, 1889, with three hundred and sixty-five patients; received two hundred and eighty-nine, and that the whole number under care and treatment was six hundred and fifty-four; discharged cured and improved, sixty-four; discharged unimproved, seven; not insane, one. There were fifty-four deaths and one escape.

Of the deaths a large number were chronic cases who had been inmates of asylums for many years. The winter months of December and January, which were attended by a large mortality throughout the State,

were marked by an unusually heavy death rate with us.

Of the number admitted, eighty-nine were native born; one hundred and seventy-seven foreign born, and of twenty-three the nativity was unknown.

In looking backward over the period covered by this report, a few remarks as to the institution and its character may not be out of place, in consideration of the fact that it is a new asylum, and this its first report since its opening for the reception of patients. Under the name of the California Hospital for the Chronic Insane, and under the superintendency of Dr. W. W. Macfarlane, it was opened for the reception of patients October 30, 1888, on which day it received seventy-five patients of the chronic class transferred from the Napa Asylum for the Insane. Later transfers of chronic cases were made from the Stockton and Napa Asylums, bringing the entire number so received up to three hundred and seventy-seven. Dr. Macfarlane, to whom is due the credit of the organization and successful beginning of the institution, remained in charge until June, 1889, when he resigned to return to private practice.

Originally intended for the care of the chronic and harmless class of the insane, it remained more a home for those insane, who, by reason of the duration and character of their diseases, were looked upon as beyond a hope of recovery, than a hospital for the treatment of diseased minds, until March, 1889, when, by Act of the Legislature, it was authorized to receive patients by direct committal, as in the State Asylums at Stockton and Napa, and its name was changed to the State Insane Asylum at Agnews. Since the change it has received all classes of cases

from nearly every section of the State.

The entire block of buildings contemplated by the various appropriations will be fully completed by December of this year. Upon its completion it will accommodate eight hundred patients properly. Built as it was, for the care of the chronic and harmless classes of the insane, its wards are not arranged in the most convenient manner for the treatment of acute cases, yet it has so many improvements, suggested by experience, that it may be said to be one of the best asylums in the State.

The various buildings composing the asylum proper are built of brick with stone trimmings, and form handsome and imposing structures, solidly constructed, and a credit to the State. In connection with the buildings we have a tract of land of about two hundred and seventy-five acres, affording space for farm, garden, and pasturage for our stock. Located about six miles northwest of San José, we are near enough to the bay of San Francisco to enjoy the tempering influence of the sea breezes.

Centrally situated, in one of the most flourishing and populous portions of the State, it would seem as if the institution was destined to

become a large one from the very force of circumstances.

In view of the purpose for which it was created, it becomes necessary from time to time to ask for appropriations to render it even better adapted to care for those who come to it for relief, or are sent to it for the protection of themselves and the community.

The State is noted for its liberality to the defective and dependent classes, and though the burden may sometimes seem hard for the tax-payers to bear, they cannot but feel that money spent for humanity's

sake is money well expended.

In the conduct of the asylum, I have endeavored to avoid any unnecessary and extravagant expenditure of the funds allotted your honorable Board for its support, and yet not to allow myself to go to the other extreme of parsimony. In all new institutions of this character, with a relatively small number of patients, the cost of maintenance appears large when compared with the older asylums, yet with a close attention to economy we have been able, during the fiscal year just passed, to keep well within the amount allowed us for support.

For the ensuing two years, I feel that it is safe to estimate that we will be able to maintain the asylum, with a due and proper regard for the comfort of its patients, at a cost of 48 cents per day per patient.

It is well within reason to expect that the house will be occupied to its full capacity of eight hundred patients during the next two fiscal years, and on this basis it would therefore require \$271,560 to support the institution up to June 30, 1893. To this sum should be added the sum necessary to pay for the insurance of the buildings, which would bring the entire amount up to \$275,000, in round numbers. This amount (\$275,000), I respectfully suggest to your honorable Board, should be asked of the Legislature for the purpose of support.

## GROUNDS.

Nothing so adds to the attractiveness of an institution of this character as beautiful grounds and gardens. The grass plots, shaded by shapely trees and spotted with tinted flowers, not only do much to remove the idea of misery that surrounds a hospital for the insane, but they are really a part of the treatment of those whose misfortunes or the ravages of disease have caused their restraint in a house of this character; cut off from the pleasures and associations of the outer world, they must need to have their surroundings cheerful and beautiful to divert, attract, and interest. Well laid out and cultivated grounds afford an exercising space free from the idea of restraint that accompanies the usual airing court of an asylum.

Nature has given this locality a beautiful climate, the State has given

it appropriate buildings, and it is to be hoped that it will still further add to the good work by making such an appropriation as will enable us to improve the grounds to an extent that will add attractiveness to both. Efforts looking to the improvement of grounds have been hampered by building operations and lack of funds, but we will soon have a clear field, and with financial assistance will make the landscape worthy of the locality.

I would urge your Board to ask an appropriation of \$20,000 for improvement of grounds.

#### SEWERS.

The most carefully constructed buildings may become hotbeds of disease, if the means of disposing of its sewage are not good. Unfortunately, our system of sewerage is defective. Our main sewer is, at best, a temporary affair, an eight-inch pipe emptying into the nearest creek, and liable to give us trouble at any time. The proper solution of the sewerage question lies in the construction of a sewer to tide water near Alviso, or the erection of a furnace for its destruction by burning. I believe that it will require \$20,000 to construct a proper sewer to tide water, where it will give offense to no one. I am not at present able to speak definitely as to the cost of destroying our sewage by fire, but I have the subject under investigation.

I would suggest that the Legislature be asked to appropriate \$20,000 to perfect our sewerage system.

#### ADDITIONAL BUILDINGS.

Last, but not least, of our requirements, is an appropriation for the construction of two additional ward buildings. Lest it might seem that I am asking for additional room at a rather early date, permit me to set before your honorable Board some of the facts which tend to prove the necessity of erecting new buildings at this point, and at this time. Taking it for granted that all of our State Asylums are on pretty nearly the same general plane of excellence, as far as caring for the inmates and economy of administration are concerned, it follows that that asylum which is nearest the center of population from which the mass of the insane is supplied, and is therefore easier of access to both patients and relatives of patients, is in the end the most economical one for the taxpayer and the State.

The cost of transportation of insane to asylums amounts to fully \$30,000 a year, while the expense of visitation by friends and relatives

of patients is often a serious item to the individual.

This asylum is located at a point within forty miles of a third of the population of the State. Within the last year, of the nine hundred and eleven patients committed to our State Asylums four hundred and seventy-nine were committed from points within forty miles of this institution. On the principle that that which is intended for the public good should be so fostered as to benefit the greater number, it would seem that an asylum so situated as to be easiest, quickest, and cheapest of access, should be enlarged from time to time as the needs of the public demand.

I am not unmindful of the fact that there are at present two new asylums now in course of construction in the northern and southern

parts of the State, but each of them have, so far as population is concerned, but a comparatively limited field to draw from.

Construction of buildings at this point will furnish the quickest and cheapest method of providing accommodation for patients. Estimating that two new ward buildings would cost \$175,000, and have a capacity of three hundred and sixty patients, they would be built at a cost not exceeding \$485 per patient, which is furnishing accommodation at a very small cost. We are enabled to do it thus cheaply by reason of having kitchen and outbuildings sufficiently large for an institution of three times our present capacity.

Confident that your Board will see the wisdom of increasing our

capacity. I leave the matter in your hands.

In whatever way statistics may be read, or theories advanced, as to the increase or decrease of insanity, it is an indisputable fact that there is a gradual increase from year to year in our asylums of those who have to be cared for. That this is entirely due to a legitimate increase of new cases of insanity, is doubtful. The longer life of the insane when properly cared for, the committal of cases of nervous disease as insane, the increased confidence felt in the management of insane asylums, the facilities of travel, together with the accumulation of uncured cases, all tend to increase the number of those remaining in the institutions for the insane.

We may write and formulate ideas for the prevention of insanity, but the truth is, that the world is not ready to adopt the radical measures necessary to cut off the most prolific sources of supply.

For the sake of convenience, I present a summary of the appropria-

tions needed for the ensuing two fiscal years:

Support Improvement of grounds Sewer to tide water Two additional ward buildings	20,000 20,000	00 00
Total	\$490,000	<u></u>

#### ACKNOWLEDGMENTS.

I must express my acknowledgments to the officers and employés for their attention to the patients and fidelity in serving the best interests of the institution. With but few exceptions, they have all been faithful to their trust.

Dr. W. F. Pratt, the Senior Assistant Physician, is attentive, skillful, and active. Interested in his work, thoroughly identified with the welfare of the asylum, he has my hearty thanks for his well directed assistance.

Dr. Emily McBride Yeargain, the Junior Assistant, and the only female physician connected with the asylums of the State, finds a broad field of usefulness among the afflicted of her own sex; ministering to women with a woman's hand, she must needs carry comfort with her.

To our Steward, Mr. F. C. Young, I am indebted for his cordial cooperation in the economical management of the house.

Our efficient Secretary, Mr. E. R. Bailey, is always on hand, correct in his accounts, and attentive to his work.

To you, gentlemen of the Board, I must express my thanks for the

kind and generous manner in which you have treated me, your hearty response to my recommendations, and for the bestowal of that confidence which has been a stimulant to my work.

We are under obligations to the Rev. Dr. Snowden and Father Raggio, and others for their efforts in behalf of the spiritual welfare of our patients, and the following named publishers and others for books.

periodicals, and newspapers gratuitously supplied:

Catholic Fathers, Santa Clara, papers and magazines; Mr. Bope, San Josè, papers and magazines; Mrs. J. Sullivan, San José, papers and magazines; San José Daily Times, San José; San José Daily Herald, San José; San Francisco Daily Call, San Francisco; E. H. Guppy, San José, magazines; Elma Glover, San José, magazines and papers; Daily Post, San Francisco; La Sociedad, San Francisco; A'Uniæ Portugueza, San Francisco; La Voce del Popolo, San Francisco; La Italia, San Francisco; Le Franco Californien, San Francisco; Hotel Gazette, San Francisco; Staats Zeitung, San Francisco; Nord California Herald, San Francisco; Gilroy Gazette, Gilroy, California; Oakland Daily Tribune, Oakland, California; Oakland Daily Times, Oakland, California; nia; Bulletin, San Francisco; Livermore Echo, Livermore, California; News Letter, San Francisco; City Argus, San Francisco; Foothill Weekly Tidings, Grass Valley, California; Biggs Argus, Biggs, California; Sutter County Farmer, Yuba City, California; Der California Volts Freund, San Francisco; Daily Times-Index, San Bernardino, California; California Journal Und Sontag Gast, San Francisco; Deutsche Zeitung, San Diego, California; Kern County Californian, Bakersfield, California; La Cronica, Los Angeles, California; Visalia Delta, Visalia, California; Le Progress, Los Angeles, California; Weekly Argus, Petaluma, California; La Republica, San Francisco; Watsonville Transcript, Watsonville, California; Evening Item, Martinez, California; Chronicle, Vallejo, California; West American Scientist, San Diego, California; Sun, Colusa, California; Weekly Independent, Santa Barbara, California; Rural Press, San Francisco; San Benito Advance, Hollister, California; Vestkutsen, San Francisco; Register, Napa, California; Yolo Mail, Woodland, California; Weekly Tribune, Los Angeles, California; Telegraph, Boston, Massachusetts; Detroit Free Press, Detroit, Michigan; Placer Argus, Placerville, California; Redwood City Democrat, Redwood City, California; Weekly Mail, Stockton, California; nia; Lake County Avalanche, Lakeport, California; Breeder and Sportsman, San Francisco; Democrat, Santa Rosa, California; Wasp, San Francisco: Courier-Item, Santa Cruz, California; Callaway Gazette, Fulton, Missouri; Monroe County Appeal, Paris, Missouri; Chicagoer Sonntagshote, Chicago, Illinois; Weekly Mirror, Los Angeles California; New Era, Key West, Florida; Normal Index, San José, California; Pacific Pharos, College Park, San José, California; Evening Express, Los Angeles, California; New England Staten Zeitung, Boston, Massachusetts; Weekly Republican, Fresno, California; Press and Horticulturist, Riverside, California; Chronicle, Virginia City, Nevada; The Kentucky Citizen, Paris, Kentucky; Phænix, Riverside, California; Journal of Commerce, San Francisco; Santa Clara Journal, Santa Clara, California; Brooklyn Blade, New York, New York; Signs of the Times, Oakland, California; Fire and Hammer, Portland, Oregon. Very respectfully,

F. W. HATCH, Medical Director.

## APPENDIX.

## APPENDICES.

## NUMBER OF ADMISSIONS, RECOVERIES, DEATHS, ETC.

The following table shows the number of admissions, recoveries, discharges, deaths, elopements, number resident at close of each year, the increase of each year, whole number treated each year, and in the aggregate; also, the ratio of recoveries and deaths each year, and for the whole time from October 30, 1888, to July 1, 1890:

	October 30, 1888, to July 1, 1889.	
Admissions	389	289
Recoveries	3	44
Discharges, uncured	3	28
Deaths	17	54
Escapes	1	1
Number resident at close of each year.	365	527
Increase	365	183
Whole number treated	389	654
Per cent of recoveries to admissions.		15.23
Per cent of deaths on number treated	4.37	8.26

## REPORT OF THE MEDICAL DIRECTOR

FOR THE YEAR ENDING JUNE 30, 1889.

To the honorable Board of Trustees of the State Insane Asylum at Agnews:

GENTLEMEN: I herewith submit to you my report for the year ending June 30, 1889.

#### ANNUAL SUMMARY.

The following summary shows the number of patients admitted, number under care and treatment, number discharged, eloped, died, and transferred during the year, and the number remaining in the asylum June 30, 1889:

FROM JUNE 30, 1888, TO JUNE 30, 1889.	Males.	Females.	Total.
Number of patients, June 30, 1888	116 141 7	61 60 4	177 201 11
Whole number under care and treatment	264	125	389
Number discharged recovered Number discharged improved Number died Number eloped Number transferred to the Stockton Asylum	1	2 1	3 2 17 1
Number discharged, died, eloped, and transferred	21	3	24
Number remaining June 30, 1889	243	122	365

## TABLE I.

Showing the counties from which three hundred and eighty-nine patients were originally committed, from July 1, 1888, to July 1, 1889.

newcea, from a wey 1, 1000, we a wey 1, 1000.					
Counties.	Males.	Females.	Total.		
Alameda	22	22	44		
Amador	2	1 1			
	5	1 - 1	3 5		
Butte	6		Ř		
Colusa	ĭ		ĭ		
Contra Costa	i		ī		
El Dorado	ì	1	2		
Fresno	4	1 1	$\tilde{4}$		
Humboldt	3		3		
Kern	2		2		
	í		ī		
Los Angeles	17	19	36		
	1,	2	2		
Merced	2	-	$\tilde{2}$		
Mariposa	7	2	9		
Monterey	•	ĺ	ĭ		
Mono	3	1	4		
Marin	8		3		
Napa	4	2	6		
Nevada	6	4	6		
Placer	$\frac{0}{2}$		2		
Plumas	$2\overset{2}{2}$	23	45		
Santa Clara	13	5	18		
Santa Cruz	76	30	106		
San Francisco	10	30	12		
San Mateo	5	4			
Sonoma	3		5 3		
Stanislaus	8	4	12		
Sacramento	ů	4	1		
Solano	15	5	20		
San Joaquin	15	9			
San Benito	$\frac{1}{2}$		$\frac{1}{2}$		
Siskiyou	1		2		
Shasta			Ţ		
Santa Barbara	$\frac{1}{2}$	1	Ţ		
San Bernardino	1	1 - 1	3		
Sutter					
San Luis Obispo	1		1		
San Diego	1	2	3		
Sierra		1 1	1		
Yuba	7	1	8		
Yolo	1		Ť		
Not given	1		I		
Totals	264	125	389		

TABLE II.

Showing the nativity of three hundred and eighty-nine patients admitted from July 1, 1888, to July 1, 1889.

to July 1, 1889.				
Nativity.	Males.	Females.	Total	
United States.				
Arkansas	1		1	
America	. 5	4	1 9	
California	. 31	18	49	
Connecticut	. 1		1	
Delaware	. 1		1	
Indiana	4		1 4 9	
Illinois	5 3	3	9	
Kentucky	4	9	6 4	
Mississippi	2		2	
Massachusetts	6	4	10	
Maryland	1		i	
Missouri	1	4	5	
Maine	2	2	4	
Michigan Now York		1	1.	
New York New Jersey	10	4	14	
Nebraska	1 1	1	1 2 1 4 6 2 2 2 1 2 2	
New Hampshire	ļ ·	li	1	
Ohio	3	Î	1 4	
Pennsylvania	5	Ī	6	
South Carolina	2		2	
Texas	$\bar{2}$		2	
Tennessee		1	1	
Virginia	2		2	
Utah Louisiana	1 1	1	1	
Wisconsin	1	1	1	
W ISCOMBINE				
Totals	95	51	146	
There's a Court 's				
Foreign Countries.			1	
Austria	2		2	
Australia		1	1	
Born at sea		1	1 1	
Corsica	1		1	
	5		Đ ;	
Canada Chili	5 3	2	3	
England	6	6	2 1 1 5 7 3 12	
France	12	3	15	
Finland	1	[	1	
Germany	27	18	45	
Italy	7		15 1 45 7 72	
ireland	44	28	72	
Japan	1	<u>-</u> -	1 6	
Mexico	4 1	2	1	
Prussia	9	2	11	
Poland	2			
Portugal	$oldsymbol{ ilde{2}}$		2 2	
Russia	2 1 5		1	
Sweden	5	3	8 🖟	
Switzerland	8 2	2	10 2 3	
South America	2		2 1	
ScotlandSouth Africa	$\frac{2}{1}$	1	1	
Spain	1		i	
SpainUnknown	16	2	18	
Wales	10	í	2 2	
Western Islands		• 2	2	
Totals	100		243	
TORMS	169	74	Z40 A	
	Į.			

## RECAPITULATION.

Nativity.	Males.	Females.	Total.
United States Foreign countries Unknown	95 153 16	51 72 2	146 225 18
Totals	264	125	389

## TABLE III.

Showing the ages of three hundred and eighty-nine patients at the time of their admission into the Asylum, from July 1, 1888, to July 1, 1889.

Ages.	Males.	Females.	Total.
Between 10 and 20 years.  Between 20 and 30 years.  Between 30 and 40 years.  Between 40 and 50 years.  Between 50 and 60 years.  Between 60 and 70 years.  Between 70 and 80 years.  Between 80 and 90 years.	36	7 33 38 38 33 9 1	30 115 96 69 30 17 4 1
Totals	264	125	389

## TABLE IV.

Showing the supposed causes of insanity in three hundred and eighty-nine patients, as stated in the commitments, from July 1, 1888, to July 1, 1889.

Chronic alcoholism	otal.
Cerebra congestion         1         1           Cerebro spinal meningitis         1         1           Congenital         2         1           Cerebra degeneration         1         1           Climatic changes         1         1           Change of life         2         2           Child birth         1         1           Congenital idiocy         1         1           Death of wife         2         1           Disappointment in love         2         1           Domestic trials         3         1           Domestic trials         3         3           Destitution         1         1           Domestic trials         3         3           Destitution         1         1           Excessive study         17         6           Excessive study         17         6           Excessive study         17         6           Excessive study         17         6           Excessive study         17         6           Excessive study         1         1           Financial reverses of husband         1         1           Injury by fall </td <td></td>	
Cerebro spinal meningitis	+
Congenital         2         1           Cerebral degeneration         1            Climatic changes         1            Change of life         2            Child birth         1            Death of wife         1            Disappointment in love         2         1           Dread of losing eyesight         1            Domestic trials         3            Destitution         1            Excessive study         3            Family troubles         1            Financial reverses of husband         1            Financial troubles         2            Family troubles         2            Financial troubles         2            Financial troubles         2            Injury by full         2            Injury by fall         2            Injury to brain         1            Intermittent fever         1            Inflammation of brain         1 <td><math>\frac{1}{2}</math></td>	$\frac{1}{2}$
Cerebral degeneration	3
Climatic changes         1           Change of life         2           Child birth         1           Congenital idicoy         1           Death of wife         1           Disappointment in love         2         1           Dread of losing eyesight         1         1           Domestic trials         3         3           Destitution         1         6           Excessive study         17         6           Excessive study         3         8           Family troubles         1         1           Financial reverses of husband         1         1           Financial reverses of husband         1         1           Financial reverses of husband         1         1           Intemperance         14         5           Interperance         14         5           Injury by fall         2         1           Injury by fall         2         1           Injury to brain         1         1           Inflammation of brain         1         1           Inflammatory rheumatism         1         1           Inflammatory rheumatism         1         1	a 1
Chalge of life         2           Child birth         1           Congenital idiocy         1           Death of wife         1           Disappointment in love         2           Dread of losing eyesight         1           Domestic trials         3           Destitution         1           Epilepsy         17           Excessive study         3           Family troubles         1           Financial reverses of husband         1           Financial troubles         2           Hereditary         14         5           Intemperance         14         5           Injury by fall         2         1           Injury to brain         1         1           Injury to brain         1         1           Injury to brain         1         1           Injury on head         4         4           Insane from birth         1         1           Inflammatory rheumatism         1         1           Jealousy         2         2           Loss of child         1         1           Loss of husband         2         2           Loss of h	i
Child birth congenital idiocy       1         Congenital idiocy       1         Death of wife       1         Disappointment in love       2         Dread of losing eyesight       1         Domestic trials       3         Destitution       1         Epilepsy       17         Excessive study       3         Family troubles       1         Financial reverses of husband       1         Financial troubles       2         Hereditary       14       5         Injury to up fall       2         Injury to brain       1       1         Intermittent fever       1       1         Inflammation of brain       1       1         Injury to head       4       1         Injury on head       4       1         Injury on head       7       2         Loss of how birth       1       1         Inflammatory rheumatism       1       1         Loss of shid       1       1         Loss of shusband       2       2         Loss of shusband       1       2         Loss of shusband       1       2         L	2
Congenital idiocy         1           Death of wife         1           Disappointment in love         2           Drad of losing eyesight         1           Domestic trials         3           Destitution         1           Epilepsy         17           Excessive study         3           Family troubles         1           Financial reverses of husband         1           Financial trouples         2           Hereditary         14         5           Intermittent fever         14         5           Injury by fall         2         1           Injury to brain         1         1           Intermittent fever         1         1           Injury on head         4         1           Injury on head         4         1           Injury on head         1         1           Injury on head         1         1           Injury on head         1         1           Injury on head         1         1           Injury on head         1         1           Injury on head         1         1           Injury on ferion birth         1         <	_ Z
Death of wife         1           Disappointment in love         2           Dread of losing eyesight         1           Domestic trials         3           Destitution         1           Excessive study         17           Excessive study         3           Family troubles         1           Financial reverses of husband         1           Financial troubles         2           Hereditary         14         5           Injury by fall         2           Injury by fall         2           Injury by fall         2           Injury to brain         1           Intermittent fever         1           Inflammation of brain         1           Injury on head         4           Injury on head         1           Injury on head         1           Insane from birth         1           Inflammatory rheumatism         1           Jeas of money         7           Loss of husband         2           Loss of husband         2           Loss of husband         2           Loss of husband         2           1           Measless	Ţ
Disappointment in love	1
Dread of losing eyesight	Ţ
Domestic trials	3
Destitution	ĭ
Excessive study	3
Excessive study	1
Family troubles         1           Financial reverses of husband         2           Hereditary         14         5           Intemperance         14         5           Injury by fall         2         1           Injury to brain         1         1           Intermittent fever         1         1           Inflammation of brain         1         1           Injury on head         4         1           Insane from birth         1         1           Inflammatory rheumatism         1         1           Loss of money         2         2           Loss of child         1         1           Loss of situation         1         1           Loss of husband         2         2           Loss of a friend         1         1           Measles         1         1           Morphine         2         2           Organic disease of brain         2         2           Overwork at school         1         1           Paralysis         2         2           Pregnancy         1         2           Puerperal         2         2	23
Financial reverses of husband	3
Financial troubles	1
Hereditary	1
Intemperance         14         5           Injury by fall         2         1           Injury to brain         1         1           Intermittent fever         1         1           Inflammation of brain         1         1           Injury on head         4         1           Insane from birth         1         1           Inflammatory rheumatism         1         1           Jealousy         2         2           Loss of money         7         2           Loss of child         1         1           Loss of situation         1         2           Loss of husband         2         1           Masturbation         35         1           Measles         1         1           Morphine         1         1           Old age         2         2           Organic disease of brain         2         2           Overwork at school         1         1           Puerperal         2         2           Religion         11         3           Spiritualism         1         1           Softening of the brain         1         3	. 2
Injury by fall	19
Injury to brain	19
Intermittent fever	2
Inflammation of brain       1         Injury on head       4         Insane from birth       1         Inflammatory rheumatism       1         Jealousy       2         Loss of money       7       2         Loss of child       1         Loss of situation       1       1         Loss of husband       2       2         Loss of a friend       1       1         Masturbation       35       1         Measles       1       1         Old age       2       0         Organic disease of brain       2       0         Overwork at school       1       1         Paralysis       2       2         Pregnancy       1       1         Puerperal       2       2         Religion       1       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1
Injury on head	1
Insane from birth         1           Inflammatory rheumatism         1           Jealousy         2           Loss of money         7         2           Loss of child         1         1           Loss of situation         1         1           Loss of a friend         2         1           Masturbation         35         1           Measles         1         1           Old age         2         0           Organic disease of brain         2         0           Overwork at school         1         1           Paralysis         2         2           Pregnancy         1         1           Puerperal         2         2           Religion         11         3           Spiritualism         1         1           Softening of the brain         1         3           Suppressed menses         3         3           Seduction         1         1	1
Inflammatory rheumatism       1         Jealousy       2         Loss of money       7         Loss of child       1         Loss of situation       1         Loss of a friend       2         Masturbation       35         Measles       1         Morphine       1         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	4
Jealousy       2         Loss of money       7       2         Loss of child       1       1         Loss of situation       1       2         Loss of husband       2       2         Loss of a friend       1       35         Measturbation       35       1         Measles       1       1         Morphine       1       1         Organic disease of brain       2       2         Overwork at school       1       2         Pregnancy       1       2         Puerperal       2       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1
Loss of money       7       2         Loss of child       1         Loss of situation       1         Loss of situation       2         Loss of husband       2         Loss of a friend       1         Masturbation       35         Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1.
Loss of child       1         Loss of situation       1         Loss of a friend       1         Masturbation       35         Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	9
Loss of child       1         Loss of situation       1         Loss of a friend       1         Masturbation       35         Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	9
Loss of situation       1         Loss of husband       2         Loss of a friend       1         Masturbation       35         Measles       1         Morphine       1         Old age       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	i
Loss of husband       2         Loss of a friend       1         Masturbation       35         Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1
Masturbation       35         Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	2
Masturbation       35         Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1
Measles       1         Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Religion       2         Spiritualism       1         Syphilis       3         Softening of the brain       1         Suppressed menses       3         Seduction       1	35
Morphine       1         Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1
Old age       2         Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	1
Organic disease of brain       2         Overwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11         Spiritualism       1         Syphilis       3         Softening of the brain       1         Suppressed menses       3         Seduction       1	2
Oyerwork at school       1         Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	$\bar{2}$
Paralysis       2         Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3         Softening of the brain       1       3         Suppressed menses       3         Seduction       1	ī
Pregnancy       1         Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       3	2
Puerperal       2         Religion       11       3         Spiritualism       1       1         Syphilis       3       3         Softening of the brain       1       3         Suppressed menses       3       3         Seduction       1       1	ī
Spiritualism       1       1         Syphilis       3         Softening of the brain       1         Suppressed menses       3         Seduction       1	2
Spiritualism       1       1         Syphilis       3         Softening of the brain       1         Suppressed menses       3         Seduction       1	1 2 1 35 1 1 2 2 1 2 1 2 1 2 3 1 3 1 3 1 3 1 3 1
Syphilis 3 5 Softening of the brain 1 5 Suppressed menses 3 Seduction 1	4
Softening of the brain	2
Suppressed menses	1
Seduction1	, T
DOUGONOM	1
	Ī
Uterine trouble	5
Unknown 129 66	195
Whooping-cough 1	1
M-4-1-	
Totals 264   125	389

## TABLE V.

Showing the class of insanity of three hundred and eighty patients, as stated in commitments, from July 1, 1888, to July 1, 1889.

CLASS.	Males.	Females.	Total.
Active	1	[	1
Amentia	1 <u>1</u>		1
Ohronic	l	1	1
Chronic meningitis		1	1
Dementia		11	49
Deuteropathic			1
Emotional		1	4
Epileptic	3	1	4
Frotomania		1	1
deneral		2	7
deneral paralysis	š		3
diotic	4	2	6
mbecility		1	1
Mania		75	183
Melancholia		8	27
Monomania		14	46
Moral	2	1	3
Maniacal	1		1
Methomania	1		1
Vervosis spasmodica	1		1
Passive			1
Puerperal		1	1
Senile decay			1
Jnknown	39	5	44
Totals	264	125	389

TABLE VI.

Showing the civil condition of three hundred and eighty-nine patients admitted from July 1, 1888, to July 1, 1889.

Civil Condition.	Males.	Females.	Total.
Divorced Married Single Unknown Widows Widowers	1 39 197 23	2 63 42 5 13	3 102 239 28 13 4
Totals	264	125	389

## TABLE VII.

Showing the occupation of three hundred and eighty-nine patients admitted from July 1, 1888, to July 1, 1889.

Occupation.	Males.	Females.	Total.
Agents	1		
Blacksmiths	4		
Butchers	3		
Bakers	5		1
Bookkeepers	ľ		
Bookbinders	1		
Clerks	$\tilde{\mathbf{a}}$		
Cooks	3 5	1	
Gearmakers	2	-	
Cabinetmakers	ĺ		
	2		
Sarpenters	1 1		
Coppersmiths			
Doópers	1		
Dairymen	3		
ruggists	1		
ditors	1		
ishermen	1		
'armers	33		3
laziers	1		`
ardeners	ī		
Iousewives	l	63	6
Iostlers	1		8
ron molders	2		
	1 1		,
ronmongers	$\frac{1}{2}$		
anitors			
umbermen	1		
aborers	83		
awyers	2		
laster mariners	1		
liners	12		1
lerchants	1		
Carble cutters	$\bar{1}$		
Iusicians	$\bar{2}$		
lechanics	$\bar{2}$		
filkers	ĺ	{ <u>-</u>	
[idwives	_	1	
o occupation	22	31	Ε
eddlers	4	1 1	
eddiers		1 4	
olicemen	1		*
ainters	3		
rostitutes		3	
hysicians		1	
ailors	8		
hoemakers	1		
oldiers	1		
hipwrights	1		
tonecutters	ī		
aloonkeepers	2		
eamstresses	- :	4	
ervants		10	1
ailors	3		. 1
runkmakers	1		
insmiths	1		
•	2		
anners		3	
eachers		7	. 8
eachers	24		
eachers Inknown Vheelwrights	1		
anners eachers Inknown Vheelwrights		·	
eachers Inknown Vheelwrights	1		
eachers Inknown Vheelwrights Veavers Vaiters	1 1		
eachers nknown Yheelwrights Jeavers	1 1 3		
eachers nknown /heelwrights /eavers	1 1 3	125	38

## TABLE VIII.

Showing the cause of death of seventeen patients from July 1, 1888, to July 1, 1889.

Date.	CAUSE OF DEATH.	Nativity.	Age.	Males	Females .
December December 1889—January January February February March March March May June	Maniacal exhaustion Chronic diarrhea Consumption Paralysis of brain Bright's disease	Illinois Mexico New York South Africa Ireland California New York Germany California Ireland New York Sweden Arkansas Corsica	40 36 63 89 35 66 25 74 26 26 50 32 45 49	111111111111111111111111111111111111111	

## TABLE IX.

Recapitulation of causes of death of seventeen patients from July 1, 1888, to July 1, 1889.

CAUSE OF DEATH.	Males.	Females.	Total.
Bright's disease	1		1
Chronic diarrhœa	2		2
Consumption	3		3
Exhaustion	1		1
Exhaustion from epilepsy	2		2
Gastro enteritis	1		Ţ
General paralysis	3		3
Maniacai expaustion	1		‡
Old age	1		1
Suicide by hanging	1		ŧ
butche by hanging			
Totals	17		17
	l	1	

TABLE X.

Showing articles made in sewing-room from October 23, 1888, to July 1, 1889.

	!
Aprons	390
Basques	54
Bath towels	286
Bolster cases	200
Bed ticks	134
Counterpanes	116
Children's bibs	25
Cooks' caps	29
Chemise	244
Clothes bags	13
Children's waists	3
Comforts	3
Chest protector	ı
Coffin pillow cases	8
Cambric jackets	20
Dress skirts	66
Dish towels	76
Drawers	
Dresses	201
Drope indepts	84
Duck jackets Flannel skirts	8
Planner Skirts	110
Iron holders	4
Night dresses	132
Pillow cases	2,416
Roller towels	389
Sheets	2,370
Sunbonnets	27
Shrouds	15
Suspenders.	117
Tablecloths.	56
TOTAL TOWARD	191
Toilet towels	
Toilet napkins Undervests	27 108

## STEWARD'S REPORT.

## TABLE FIRST.

Amount of articles purchased and consumed, and other expenses, for the fiscal year ending June  $30,\,1889.$ 

ARTICLES.	Value.
Tour	\$1,762 0
feat	3,364 1
ugar	707 2
ea	181 6
vrup	97 8
otafoes	446 4
ButterButter	1,115 0
Chicory and coffee	368 8
ard	12 0
'ish	698
oultry and eggs	182 3
Poultry and eggs	136 9
lice and cracked wheat	210 3
orn and oatmeal	210 6
ruit and vegetables	338 6
alt	30 0
inegar	7 2
mall groceries	1,262 2
oap	315 9
rugs	1,021 9
iquors and ale	36 5
obacco	155 70
ry goods	4,096 3
lothing and hats	1,252 6
hoes and leather	500 4
lankets	3,896 7 4,032 5
urniture and crockery	965 2
lardware and tinware	
poons and cutlery	366 4
arpeting and matting	636 2
rain and feed	165 9
arden tools and seeds	2,221 3
umber	458 3
epairs rooms and brushes	148 8
books and stationery	106 8
asas_	415 2
uel	5,368 2
uei	127 8
aints, oils, and glass edding	1,083 6
eduling	262 9
astings, iron, and pipe	662 4
tiscensiedus	29,115 4
ayroll xpenses of administration	1,599 0
reight and express	2 6
reight and express	10 4
elegraphing and telephoning	185 7
rounds	2,101 0
nsurance	207 0
dvertising	832 3
ive stock	849 4
aling hay	203 3
arriages and wagons	925 0
ewing machines	253 5
Iarness	278 1
Iorseshoeing	82 7

## TABLE FIRST—Continued.

Articles,	Value	e.
Gas fixtures	\$1,230	_ )
Kange and steam tables	1,025	( )
Swill cart	110	Ä
Clothes baskets.	38	
Oil cloth	26	
Oil cloth Rubber sheets	215	
Scales	210	3 5
Stepladder	7	5
Straw	43	
Scales	31	
Nocks	133	
Clocks Window shades	100	
Dar wheels	54	
toves	40	
A shortos	91	
Asbestos Engine-room supplies	410	8
Bushor nashing	418	
Rubber packing	23	
Fertilizers	30	
Window screens	233	
Togo oow		
Hose cart	65	
ron stair-rail		
Farm tools and supplies	293	
Hair clippers	13	
Veterinary surgeon Paragon reels and hose	21	
raragon reels and nose	2,142	0
Carpenter's tools and supplies service of stallion	161	
service of stanton	90	
Rent of piano	5	00
Total	\$82,994	6

## TABLE SECOND.

Showing the cost of the different departments for the fiscal year ending June 30, 1889.

DEPARTMENTS.	Cost.
Kitchen and dining-rooms	\$8,650 00
Wards.	1.790 46
Bakery	1,753 91
Laundry	266 44
Engine-room	5 136 28
Farm, garden, dairy, and stable .	2.072.05
Expense of administration	1.599 07
Repairs	3.111 28
Miscellaneous	4 010 65
Drug store	924 53
Sewing-room	1 2.137 10
Furnishing	21.377 18
Center building	33 92
Steward's office	15 56
Payroll	29,115 49
Total	\$82,994 60
	1

## TABLE THIRD.

Disbursements for the fiscal year ending June 30, 1889.

FOR WHAT PURPOSE.	Amount.
Maintenance	\$61,617 42 20,527 71 849 47
Total	\$82,994 60

## TABLE FOURTH.

Averages for the fiscal year ending June 30, 1889.

Months.	Average Number of Patients Daily	Average Daily Ex- pense	Average Cost per Capita per Day	Average Cost per Capita per Month.
1888—November	102 274 270 310 363 363 363 363 364	\$170 23 200 43 214 08 236 78 222 01 225 40 213 86 326 06	\$1 67 73 \(\frac{1}{10}\) 76 \(\frac{1}{10}\) 61 \(\frac{1}{10}\) 62 58 \(\frac{1}{10}\) 89 \(\frac{1}{10}\)	\$50 06 22 68 24 58 21 39 18 96 18 63 18 26 26 87
Yearly averages	301	\$226 10	\$0 83 <sub>10</sub>	\$25 18

# REPORT OF THE TRUSTEES OF THE TABLE FIFTH.

Products of the farm, garden, and dairy, for the fiscal year ending June 30, 1889.

Articles.	Amount.
Asparagus, pounds	1
Beets, pounds	
Beets, pounds	3
Butter, pounds	5
labbage, pounds	
Cucumbers, dozens	1
Chickens, dozens	1
Oucks, dozens	_
Eggs, dozens	61
auliflower, pounds	•
ettuce, pounds	5
Milk, gallons	7,15
nions, pounds	1,1
Freen pease, pounds	$oldsymbol{ ilde{2}}$
Radishes, pounds	$\overline{2}$
quash, pounds	_
trawberries, pounds	6
urnips, nounds	ğ
urnips, pounds ears, pounds	8,4
teers killed	0,-
alves killed	
logs sold, 594 pounds	\$41
alves sold, 1,061 pounds	\$83
ows sold, 2,817 pounds	\$183
Iay, tons	<b>41</b> 00 <sub>2</sub>

## REPORT OF THE MEDICAL DIRECTOR

FOR THE YEAR ENDING JUNE 30, 1890.

To the honorable Board of Trustees of the State Asylum at Agnews:

Gentlemen: I herewith submit to you my annual report for the year ending June 30, 1890.

ANNUAL SUMMARY.

The following summary exhibits the number of patients in the asylum June 30, 1889; number admitted, number under care and treatment, number discharged, eloped, and died during the year, and the number remaining in the asylum June 30, 1890:

FROM JUNE 30, 1889, TO JUNE 30, 1890.	Males.	Females.	Total.
Number of patients June 30, 1889	243 202	122 87	365 289
Whole number under care and treatment	445	209	654
Number discharged recovered Number discharged improved Number discharged unimproved Number discharged not insane Number died Number eloped	32 16 5 1 42 1	12 4 2 12	44 20 7 1 54
Discharged, died, and eloped	97	30	127
Number remaining June 30, 1890	348	179	527

TABLE I.

Showing the counties from which two hundred and eighty-nine patients were admitted from July 1, 1889, to July 1, 1890.

Counties.	Males.	Females.	Total.
Alameda	13	8	21
Monterey	.  6	\\	6
Mendocino		1 1	9
Placer		1 1	1
Santa Cruz	. 5	1 2	7
Santa ClaraSan Francisco		17 51	38 194
San Benito		91	195
Shasta			i
Sacramento		1 il	3
San Mateo		$  \bar{2}  $	. 7
San Luis Obispo		3	7
San Joaquin	_ 1		1
· · · · · · · · · · · · · · · · · · ·	<del></del>		
Totals	. 202	87	289

TABLE II.

Showing the nativity of two hundred and eighty-nine patients admitted from July 1, 1889, to July 1, 1890.

NATIVITY.	Males.	Females.	Total.
United States.			
California	19	11	30
Connecticut	1		1
Iowa		1	1
Illinois	4	3	7
Indiana	1	2	3
Kentucky	1	1	2
Minnesota		1	1
Missouri	2		2
Maine		2	2
Massachusetts	2	1	$\bar{2}$
Maryland	3		ā
Nevada	ĭ	1	ž
New York	7	5	19
New Hampshire	•		2
Nebraska	1	"	11732122233212 1222332122152232221
Ohio	4	1	, K
Oregon	1	1	9
	1	2	2 9
Pennsylvania	1	1 1	
Texas	$\frac{1}{2}$		2
Tennessee	. 2		2
Virginia			2
Vermont	1		1
West Virginia		1	1
			<del></del>
Totals	54	35	89
Foreign Countries.			
, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	10		,
Austria	10		10
Australia	1	{	1
Azore Islands	1		ļ
Belgium	1		1
Canada	5	1 1	6
Cape Britain		1	1
China	5	1	6
Denmark	3		3
England	13	2	15
France	3 3	6	9
Finland	3		3
Germany	25	8	33
Greece	1		1
Holland	2		2
Isle of Malta	1		1
[taly	7	1	1 16 16 31 15 9 33 33 1 2 1 8 46 3 1 1 4 3 2 2 2 4 5 5 6 7 6 7
Ireland	25	$2\bar{1}$	46
Japan	3		3
Mexico	ĭ		ĩ
Morocco	ī		ī
Nova Scotia		1	. 4
Norway	9	i	â
Poland	3 2 1	1	9
Russia	7	1	2
	2 3 3		Ä
	ခို	1	* *
Switzerland	3 3	$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$	4
Sweden		1	1
Society Islands	1		1
Unknown	19	4	23
l <del>-</del>	148	52	200
Totals			

## RECAPITULATION.

NATIVITY.	Males.	Females.	Total.
United States	54 129 19	35 48 4	89 177 , 23
Totals	202	87	289

TABLE III.

Showing the ages of two hundred and eighty-nine patients at the time of their admission into the Asylum, from July 1, 1889, to July 1, 1890.

Ages.	Males.	Females.	Total.
Between 10 and 20 years.  Between 20 and 30 years.  Between 30 and 40 years.  Between 40 and 50 years.  Between 50 and 60 years.  Between 60 and 70 years.  Between 70 and 80 years.  Between 80 and 90 years.  Between 80 and 90 years.	8 45 55 47 24 9 2 1	2 23 24 21 4 7 5	10 68 79 68 28 16 7 1
Totals	202	87	289

TABLE IV.

Showing the supposed causes of insanity in two hundred and eighty-nine patients, as stated in commitments, from July 1, 1889, to July 1, 1890.

Anxiety over sick child Business reverses  Business worries  Brooding over trouble  Congestion of brain  Death of wife  Death of husband  Disappointment in love  Disappointment in love  Domestic trouble  Epilepsy  Family trouble  Hereditary  Hereditary  Hemorrhage of brain  Hysteria  Injustice of husband  Loss of money  Loss of money  Loss of money  Loss of money  Loss of money  Loss of property  Lactation  Menstrual trouble  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental worry  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wisher  Mental of wish	SUPPOSED CAUSES.	Males.	Females.	Total.
Anxiety over sick child Business reverses Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business worries Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Business Bus	Amenorrhœa			8
Business reverses	Anxiety over sick child		1	
Business worries	Business reverses	3		
Brooding over trouble	Rusiness worries			1
Congestion of brain	Brooding over trouble			1
Cocaine	Congostion of brain	1		1
Child birth   Death of wife   1	Cogino	1		1
Death of wife	Okila ki-4k	_	1	. 1
Death of husband	Doods of wife	1		1
Discase of brain   1   1   1   1   1   1   1   1   1	Death of back and	_	1	
Disorders of menopause   1   1   1   1   1   1   1   1   1	Death of husband			ī
Disappointment in love	Disease of orain			3
Domestic trouble	Disorders of menopause			
Domestic trouble	Disappointment in love			i
Family trouble	Domestic trouble			
Hereditary	Epilepsy	4		
Hemorrhage of brain	Family trouble			
Hemorrhage of brain	Hereditary		- 1	
Hysteria	Hemorrhage of brain			
Intemperance	Hysteria		1	
Injury on head	Intemperance	28		
Injustice of husband	Injury on head	8		
Loss of property	Injustice of husband		1	Ţ
Lost of property	Loss of money			2
Lactation       22       1         Masturbation       22       1         Menstrual trouble       1       1         Mental worry       1       1         Overexertion and heat       1       1         Old age       1       1         Overtaxed brain       1       1         Political excitement       1       1         Puerperal condition       6       3         Religion       3       1         Softening of brain       3       1         Senility       1       1         Sunstroke       1       1         Spiritualism       1       1         Starvation       1       1         Traumatic       1       1         Troubles       1       1         The Iron Molders' strike       1       2         Typhoid fever       2       1         Typhoid fever       1       1         Typhose fever       1       2         Use of opium       2       2         Use of opium       2       2         Use of opium       3       1         Use of opium       3 <td< td=""><td>Loss of property</td><td>1</td><td> </td><td><u>.</u></td></td<>	Loss of property	1		<u>.</u>
Masturbation       22       1         Menstrual trouble       1         Mental worry       1         Overexertion and heat       1         Old age       1         Overtaxed brain       1         Political excitement       1         Puerperal condition       6         Religion       3         Softening of brain       3         Senility       1         Sunstroke       1         Spiritualism       1         Spiritualism       1         Traumatic       1         Traumatic       1         Troubles       1         The Iron Molders' strike       1         Typhoid fever       2         Typhoid fever       1         Typhos fever       1         Unknown       90         Use of morphine       3         Use of opium       2         Uterine trouble       3         Want of employment       1         Want and irregular life       2	Lactation			
Menstrual trouble         1           Mental worry         1           Overexetion and heat         1           Old age         1           Overtaxed brain         1           Political excitement         1           Puerperal condition         6           Religion         6           Softening of brain         3           Senility         1           Sunstroke         1           Spiritualism         1           Traumatic         1           Troubles         1           The Iron Molders' strike         1           Typhoid fever         2           Typhoid fever         1           Typhus fever         1           Use of morphine         3           Use of opium         2           Uterine trouble         3           Want of employment         1           Want and irregular life         2	Masturbation	,		
Mental worry.         1         1           Overexertion and heat         1         1           Old age         1         1           Overtaxed brain         1         1           Political excitement         1         1           Puerperal condition         1         1           Religion         6         3         1           Softening of brain         3         1         1           Senility         1         1         1           Sunstroke         1         1         1           Spiritualism         1         1         1           Starvation         1         1         1           Traumatic         1         1         1           Troubles         1         1         1           Typhoid fever         2         2         1           Typhoid fever         1         1         1           Typhose fever         1         1         1           Use of morphine         2         2         2           Uterine trouble         3         3         1           Want of employment         1         1           Want and irr	Menstrual trouble			
Overexertion and heat         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Mental worry	.	1	
Old age         1           Overtaxed brain         1           Political excitement         1           Puerperal condition         6           Religion         3           Softening of brain         3           Senility         1           Sunstroke         1           Spiritualism         1           Spiritualism         1           Traumatic         1           Troubles         1           The Iron Molders' strike         1           Typhoid fever         2           Typhus fever         2           Typhus fever         3           Use of morphine         3           Use of opium         2           Uterine trouble         3           Want of employment         1           Want and irregular life         2	Overexertion and heat	1		
Overtaxed brain         1           Political excitement         1           Puerperal condition         3           Religion         6           Softening of brain         3           Senility         1           Sunstroke         1           Spiritualism         1           Starvation         1           Traumatic         1           The Iron Molders' strike         1           Typhoid fever         2           Typhus fever         1           Unknown         90         41           Use of morphine         3           Use of opium         2           Uterine trouble         3           Want of employment         1           Want and irregular life         2	Old age			
Political excitement	Overtaxed brain		1	
Puerperal condition         6         3           Religion         3         1           Softening of brain         3         1           Senility         1            Sunstroke         1            Spiritualism         1         1           Starvation         1            Traumatic         1            Troubles         1            The Iron Molders' strike         1            Typhoid fever         2            Typhus fever         2            Unknown         90         41           Use of morphine         3            Use of opium         2            Uterine trouble         3            Want of employment         1            Want and irregular life	Political excitement	.  1		
Religion       0       3       1         Softening of brain       3       1         Senility       1	Puerneral condition			
Softening of brain	Religion	.  0		9
Senility   Senility   Senility   Senility   Sunstroke   Spiritualism   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation   Starvation	Softening of brain		1	4
Sunstroke	Senility	.! 1		1
Spiritualism	Sungtroke	.1 +		1
Starvation       1         Traumatic       1         Troubles       1         The Iron Molders' strike       1         Typhoid fever       2         Typhus fever       1         Unknown       90       41         Use of morphine       3         Use of opium       2         Uterine trouble       3         Want of employment       1         Want and irregular life       2	Spiritualism	.1 1	1	2
Traumatic       1         Troubles       1         The Iron Molders' strike       1         Typhoid fever       2         Typhus fever       90         Unknown       90         Use of morphine       3         Use of opium       2         Uterine trouble       3         Want of employment       1         Want and irregular life       2	Staryation	1		1
Troubles	Tronmotio	1		1
The Iron Molders' strike 1 2 Typhoid fever 2 1 Typhose fever 90 41 Unknown 90 41 Use of morphine 2 2 Use of opium 2 Uterine trouble 3 Want of employment 1 Want and irregular life 90 97 98		1		1
Typhoid fever	The Iron Melders' strike	ī		1
Typhous fever	Typhoid foron	1	2	2
13	Typhya foron			1 .
Use of morphine	Unbanara	90		131
Use of opium 2 Uterine trouble 3 Want of employment 1 Want and irregular life 2  Want of employment 2  1  Want and irregular life 2  2  3  4  2  3  4  4  5  6  7  7  8  8	Unknown	3	l	3
Uterine trouble	Use of miorphine			2
Want of employment 1 Want and irregular life 200 07 28	Use of optum		3	3
Want of employment 1	Uterine trouble	-		1.
want and irregular life	want or employment			1.
702 87 28	want and irregular life		<u> </u>	
	(Takala	202	87	289
TOTALS	Totals	-		

## TABLE V.

Showing the class of insanity of two hundred and eighty-nine patients, as stated in commitments, from July 1, 1889, to July 1, 1890.

CLASS.	Males.	Females.	Total.
Dementia General Mania Melancholia Monomania Puerperal mania Senile dementia Unknown	18 1 92 26 4	2 2 45 12 6 2 2 16	20 6 137 38 10 2 2 7
Totals	202	87	289

## TABLE VI.

Showing the civil condition of two hundred and eighty-nine patients admitted from July 1, 1889, to July 1, 1890.

CIVIL CONDITION.	Males.	Females.	Total.
Divorced	54 122 17	1 42 30 2 12	1 96 152 19 12 9
Totals	202	87	289

## TABLE VII.

Showing the occupation of two hundred and eighty-nine patients admitted from July 1, 1889, to July 1, 1890.

OCCUPATION.	Males.	Females.	Total.
Artists		1	1
Brass finishers	1	}	1
Brewers	1	]	1
Barbers	2		2
Blacksmiths	2		2
Bookkeepers	3		3
Boatswain	1		1
Boxmakers			2
Cabinetmakers			. 1
Carpenters			11
Cider business			, 1
Cooks	6		6
Confectioners	1		1
Cigarmakers	2		2
Clerks	1		ļ
Voffee saloons	1		1
Voopers	2		2
Clairvoyants		1	1
Domestics		9	9
Dressmakers		3	3
Dress cutters	1		1
Orummers	1	1	1

## TABLE VII-Continued.

OCCUPATION.	Males.	Females.	Total.
Dentists .	2		2
Engineers	1		1
Fireman on steamer.	1	[	ī
Fresco painters	1		1
Fishermen	2	[	2
Farmers	6		6
Gardeners	4	[	ľ .
Housework	l	34	34
Hatters	1	1'	1
Hotelkeepers	1	[	<u> </u>
Hostlers	$\overline{2}$	[[[]]	2
Laundrywomen		1	ī
Locksmiths	1	1	ī
Laundrymen	2		2
Laborers	55	1	56
Molders	2	l'	2
Miners	1 3		i <u>3</u>
Mechanics	2		3 2
Marble cutters	ī		1 1
Merchants	2		$\bar{2}$
Music teachers	l	2	2 2
Nurse		1 1	í
No occupation	8	7	15
Orchardists	ľ	1 .	2
Polishers	l il		ĺ
Poultry dealers	1	<b> </b>	i
Printers	1		1
Physicians	2		i
	$\frac{\bar{2}}{2}$		2
Painters Peddlers	$\begin{bmatrix} & \mathbf{z} \\ 2 \end{bmatrix}$		2 2
	6		6
Saloonkeeners	4		4.
Saloonkeepers	1		1 1
Sea captains	, 1		5.
Servants	<b>∌</b> 1 1	<b>"</b>	1
Salesmen	3		3
Shoemakers	5 2		2
Stablemen	2		1
Sawyers			1
Sheepherders	1		3
School teachers		3	
Tailoress		1	1
Tinsmiths	1		1
Tailors	1		1
Teamsters	5		5
Truckman	1 1		1
Unknown	21	19	40
Upholsterers	1		1
Winemakers	1		1.
Waiters	3		3 1
Woodchoppers	1		1
- · •	200	95	990
Totals	202	87	289
, 1	,	( )	

## TABLE VIII.

Showing the cause of death of fifty-four patients from July 1, 1889, to July 1, 1890.

Month.	CAUSE OF DEATH.	Nativity.	Age.	Male	Female.
July, 1889	Marasmus and exhaustion	Sweden	26	1	
July, 1889	Apoplexy	Norway	46	1	l
July, 1889	Exhaustion	Delaware	73	1	
September, 1889	Consumption	Unknown		1	
September, 1889	Old age	Germany	72		1
September, 1889	Maniacal exhaustion	United States	30	1	
October, 1889	Heart disease	Texas	34	1	
November, 1889	Epilepsy	Germany	15	1	
November, 1889	Epilepsy and consumption	Germany	43	1	
November, 1889	General paralysis	Indiana	50	1	
November, 1889.	Exhaustion	Russia	42	] 1	
November, 1889.	Consumption.	Mexico	36	1	
November, 1889 December, 1889	Epilepsy and exhaustion	Ireland	24	1	
	Exhaustion from epilepsy	California	30	1	11
December, 1889	Paralysis	Illinois	18		4
December, 1889	Apoplexy Chronic diarrhœa	Germany	47	1	
December, 1889	Exhaustion	Unknown Texas	26	1	
December, 1889	Exhaustion	Unknown	65	1	
December, 1889	Exhaustion	Unknown	46	1	1
December, 1889	Exhaustion	Germany France	18		1
December, 1889	Consumption.	Germany	21	1	-
January, 1890	Heart disease	England	39		ī
January, 1890	Exhaustion with erysipelas	Prussia	67	1	*
January, 1890	Organic disease of brain.	Holland	49	i	
January, 1890	Organic disease of brain	Prussia	78	ī	
January, 1890	Pneumonia_	Finland	30	ī	
January, 1890	Exhaustion	Ireland	63	i	1
January, 1890	Organic disease of heart	Isle of Malta	50	1	
January, 1890	Congestion of lungs	Nevada	36	1	
January, 1890	Epilepsy and exhaustion	Kentucky	68	1	
January, 1890	Exhaustion	Illinois	80	1	
February, 1890	Exhaustion	New York	57	1	
February, 1890	Apoplexy	Missouri	64	1	
February, 1890	Bright's disease	Germany	31		1
February, 1890 March, 1890	Cancer	Germany	60	1	-
	Exhaustion	France	54	1	
March, 1890	Pneumonia	France	33		1
March, 1890	Maniacal exhaustion	Unknown	38		1
March, 1890	Consumption	California	14	1	5
March, 1890	Infirmities of age	Pennsylvania	75.		1
April, 1890	Maniacal exhaustion	Germany	40	1	
April, 1890	Exhaustion	Ireland	53		1
April, 1890	Acute pneumonia	Canada	35	1	
April, 1890	Consumption	China	39	1	
April, 1890	Consumption	Denmark	21		
May, 1890	Organic disease of brain	Azores	53 25	1	
May, 1890	Consumption	California	20 60	1	
May, 1890	Epilepsy Exhaustion	Virginia	75	1	
May, 1890	Epilepsy	Vermont New York	51	1	
May, 1890	Chronic diarrhea	New York	39	1	
June, 1890 June, 1890	Paralysis	United States	38		į
June, 1890	Consumption	Ireland	50	<u>i</u>	
U WILE, TOOL		11VIAHU	<i>J</i> VV [	1	

TABLE IX.

Recapitulation of the causes of death of fifty-four patients from July 1, 1889, to July 1, 1890.

CAUSE OF DEATH.	Males.	Females.	Total,
Apoplexy	3		3
Acute pneumonia	1		ī
Bright's disease		1	ī
Consumption	1 8	L	8
Chronic diarrhea	1 2		ž
Congestion of lungs	l <u>ī</u>		ī
Cancer	l ī		- 1
Exhaustion	8	4	19
Exhaustion from enilensy	ĭ	1 - 1	1
Exhaustion from epilepsy Exhaustion with erysipelas	ī		1
Enilensy	3		8
Epilepsy and consumption Epilepsy and exhaustion	i		ĭ
Enilency and exhaustion	$\frac{1}{2}$	[	9
General paralysis	1		1
Heart disease	1		1
Infirmities of age	_	1 1	1
Marasmus and exhaustion	1	1 -	1
Maniacal exhaustion	2	1	1
Old age			1
Old age Organic disease of brain	3		1 9
Organic disease of brant	1		0
Organic disease of heart	1	2	1
Paralysis		2	ž
Pneumonia	T	1 1	Z
Totals	42	12	54

## TABLE X.

Showing articles made in the sewing-room from July 1, 1889, to July 1, 1890.

ARTICLES.	Number.
Anrons	371
ApronsAnkle straps	12
Doggree	85
Basques	542
Bath towels	212
Counterpanes Chemise	157
Uneimise	
Clothespin bags	3
Carriage covers	22
Coffin pillow cases Canvas mats	22
Uanyas mats	12
Cambric jackets.	50
Cambric jackets.	1 4 2
Unildren's dresses	2
Drawers	121
Dresses	117
Duck jackets	25
Dress šķirts	75
Dish towels	167
Drop cloths for painter	2
Flannel skirts	108
Knee caps	2
Mattress covers	$25\overline{6}$
Night dresses	177
Night done	2
Night caps Napkins	67
Nalow eage	646
Pillow cases.	501
Pillow ticks	72
Pillow shams	392
Roller towels.	
Sheets	1,147
Shrouds	80
Straw ticks	95
Suspenders	58
8kirts	73
Sacks for making coffee	12
Skirts Sacks for making coffee Sunbonnets	48
Table cloths	5 3
Underwaists	3
Undervests	226
Waterproof capes	18
Waiters' jackets	2
White skirts	147
TXT' 1	28
Window curtains	40

## STEWARD'S REPORT.

## TABLE FIRST.

Amount of articles purchased and consumed, and other expenses, for the fiscal year ending June 30, 1890.

J WHE 50, 1850.	
ARTICLES.	Value.
Flour	\$3,623 32
Meat	5,115 29
Sugar	1,365 07
Tea	323 58
<u>Syrup</u>	207 42
Potafoes	967 99
Butter	2,493 98
Chicory and coffee	763 14
Lard	78 87
Pish	237 45
Poultry and eggs	738 46
Beans	236 65
Rice and cracked wheat	439 96 379 50
Corn and oatmeal	115 20
Fruit	48 47
Salt	16 34
Vinegar	2,246 59
Small groceries Soap	404 52
Soap	369 29
Drugs Liquors and ale	25 00
Tobacco	534 20
Dry goods	2,033 76
Clothing and hats	1,293 54
Shoes and leather	880 49
Blankets	1,505 68
Furniture and crockery	2,001 64
Hardware and tinware	689 78
Snoons and cuttery	87 71
Spoons and cutlery Carpeting and matting	154 37
Grain and feed	821 09
Grain and feed	204 04
Lumber	2,113 69
Repairs	464 21
Brooms and brushes	226 84
Books and stationery	77 30
Gas	831 25
Fuel	7,495 89
Paints, oils, and glass	899 41
Bedding Castings, iron, and pipe Miscellaneous	259 25
Castings, iron, and pipe	460 75
Miscellaneous	790 97
Payroll	41,553 10
Returned escapes	13 70
Returned escapes	58 85
Expense of administration	2,448 54
H'reight and eynress i	85 46
Ice	323 55
Telegraphing and telephoning	89 90
Telegraphing and telephoning	1,540 71
Insurance	2,128 00
Advertising	366 00
Live stock	2,406 15
Baling hav	306 60 ∶
Baling hay Carriages and wagons.	225 00
Harness	84 40

## TABLE FIRST-Continued.

Articles.	Value.	
Horseshoeing Range and steam tables Clothes baskets	\$177	
Range and steam tables	40	
Clothes baskets	Š	
Oil cloth	22	90
Scales	66	00
Clothes paskets Oil cloth Scales Stepladders Stepladders Lime and cement Window shades	33	60
Straw	28	20
Lime and cement	50	00
Window shades	123	00
Stoves	142	12
Stoves Engine-room supplies	377	05
Rubber packing	11	70
HoseFarm tools and supplies	36	55
Farm tools and supplies	414	
Veterinary surgeon Carpenter's tools and supplies Service of stallion Vegetables	23	
Carpenter's tools and supplies		10
Service of stallion		00
Vegetables	153	
Grommets		65
Rent of piano		00
Restraints		45
Refrigerator	250	
<u>Moss</u>	546	
Elevator		50
Railroad track	500	
Tallow	52	
Tallow Surveying Caustic soda		00
Caustic soda	41	
Water cart	217	50
Total	\$99,418	11

## TABLE SECOND.

Showing the cost of the different departments for the fiscal year ending June 30, 1890.

DEPARTMENTS.	Cost.
Kitchen and dining-rooms Wards Bakery Laundry Engine-room Farm, garden, dairy, and stable Expense of administration Repairs Miscellaneous Drug store Sewing-room Furnishing Center building Steward's office	4,152 45 544 06 7,157 23 4,115 62 2,557 39 2,403 33 6,587 36 402 00 1,913 23 6,915 38 247 82
Payroll	\$99,418 11

## TABLE THIRD.

## Disbursements for the fiscal year ending June 30, 1890.

FOR WHAT PURPOSE.	Amount.
Maintenance Furnishing	\$92,502 <b>9</b> 3 4,509 23 2,406 15
Total	\$99,418 11

## TABLE FOURTH.

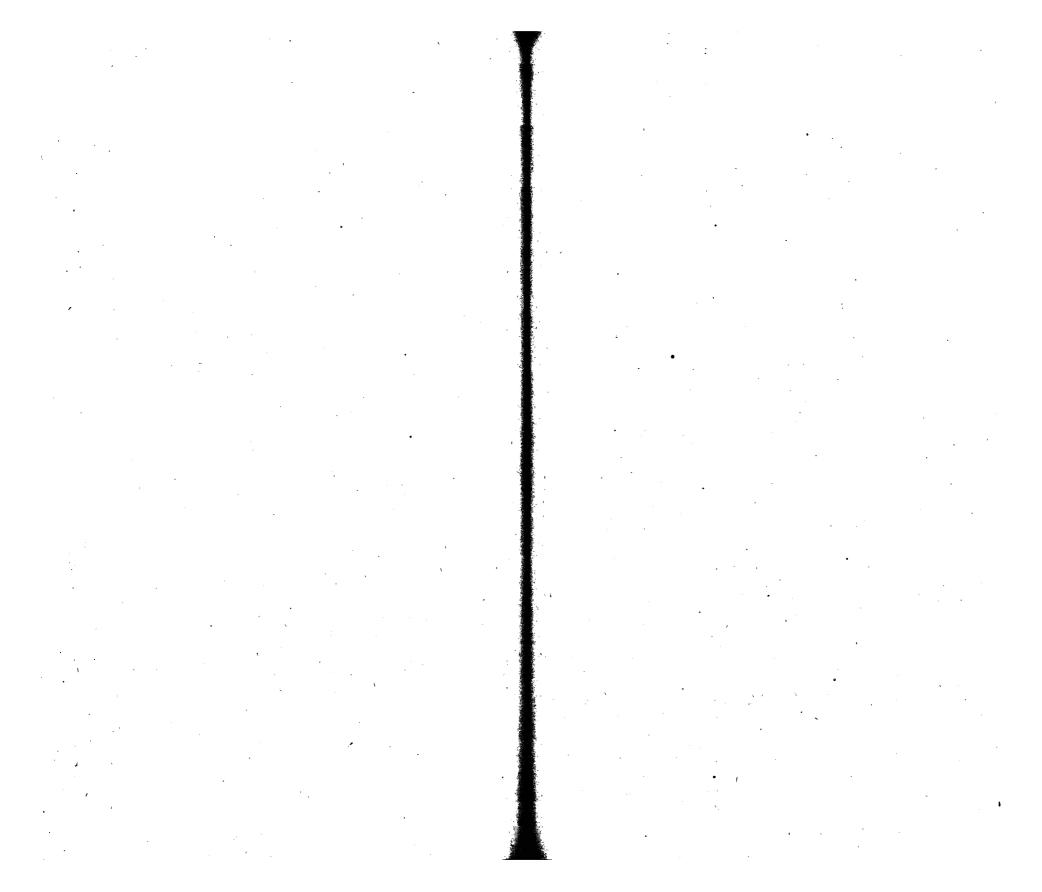
## Averages for the fiscal year ending June 30, 1890.

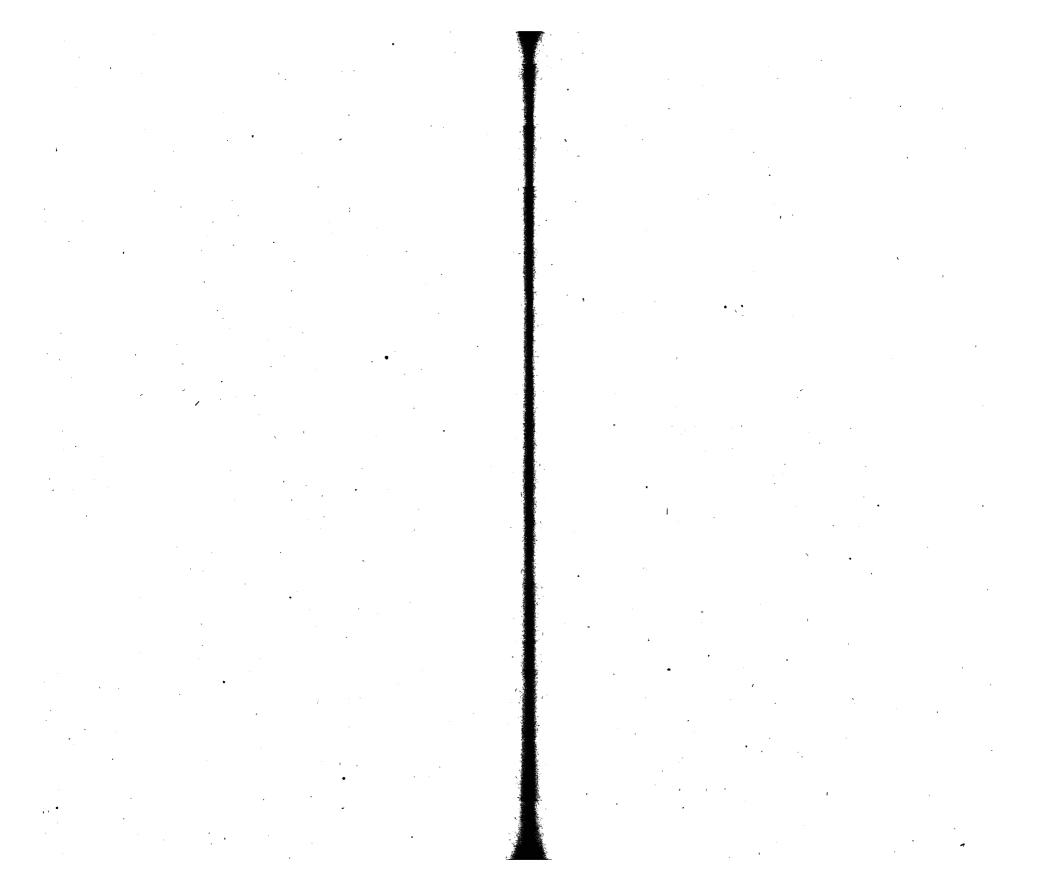
Months.	Average Number of Patients Daily.	Average Daily Expense	Average Cost per Capita per Day	Average Cost per Capita per Month
1889—July August September October November December 1890—January February March April May June	459 478 485 487 490 495 502 515	\$303 68 212 85 231 61 258 36 265 06 242 98 264 49 256 13 251 85 261 04 244 92 247 02	\$0 82 4 56 4 59 7 57 7 50 4 51 4 52 7 52 7 48 7	\$25 51 17 50 17 46 18 50 17 32 15 76 16 90 14 78 15 93 15 82 15 12 14 39
Yearly averages	457	\$253 33	\$0 56 <del>1</del> 0	\$17 08

## TABLE FIFTH.

## Products of the farm, garden, and dairy, for the fiscal year ending June 30, 1890.

ARTICLES.	Amount.
Asparagus, pounds	133
Beets, pounds	2,270
String beans, pounds	3,434
String beans, pounds	5,532
Cucumbers, dozens.	616
Cauliflower, pounds	2,246
Carrots, pounds	2,313
Green corn, dozens	570
Celery, pounds	1,478
Chickens, dozens	13
Eggs, dozens	
Grapes, pounds	480
Letfuce, pounds	1,103
Melons, dozens	
Milk, gallons	14,987
Onions, pounds	3,453
Parsnips, pounds	87
Green pease, pounds	2,765
Pears, pounds	
Radishes, pounds	170
Squash, pounds	862
Strawberries, pounds	281
Turnips, pounds	3,006
Tomatoes, pounds	
Hogs sold, 3,888 pounds	\$202 15
Calves killed	12
Hay, tons	206
	<u> </u>





# FIFTH ANNUAL REPORT

OF THE

# BOARD OF TRUSTEES OF THE CALIFORNIA HOME

FOR THE

# Care and Training of Feeble-Minded Children.

FOR THE YEAR 1889.



## SACRAMENTO:

STATE OFFICE::: J. D. YOUNG, SUPT. STATE PRINTING.

## REPORT.

CARE AND TRAINING OF FEEBLE-MINDED CHILDREN, SANTA CLARA, November 1, 1889.

To his Excellency Governor Waterman, Governor of the State of California:

In compliance with and agreeably to the laws of the State of California, we respectfully herewith submit to you our annual report as Trustees of said institution.

For a detailed statement and all the necessary information required by statute, we respectfully refer you to the report of our Superintendent, Dr.

A. E. Osborne, which is annexed hereto and made part hereof.

The health of the inmates during the past year has been good, and considerable progress made with many in their physical, mental, and educational condition. The number of inmates in the institution on the thirtieth day of June, 1889, being the end of the fiscal year, was one hundred and fourteen, and the number therein on the first day of November, 1889, was one hundred and eighteen, divided as follows: Boys, sixty-seven; girls,

fifty-one.

As we have heretofore stated in our former reports, our capacity for accommodating those at present in the institution is very limited, and we are compelled, for want of room, to deny admission to the many applicants now seeking to get in, many of whom are urgent and necessary cases, and who should or ought to be provided for, but for want of room we are unable at present to provide accommodations for them. If we had to-day room sufficient, we could have in the institution over two hundred and fifty children. It is true, nothing can be done till the new buildings, on the new location lately selected by the Commission under the last legislative Act in reference to providing a permanent site for this institution, are built and completed. The Legislature of our State, at its last session, very wisely provided for an appropriation for a new site for this institution, under an Act "To provide a permanent site for the California Home for the Care and Training of Feeble-Minded Children," and to erect suitable buildings thereon. The Act provided for the selection and appointment, by your Excellency, of two citizens, who, with this Board of Trustees, were to form a Commission, whose duties were the selection and purchase of a suitable site or property for the future Home of this institution. Under this Act, your Excellency made two very wise appointments in the persons of Captain Oliver Eldridge and George W. Gibbs, Esq., citizens of San

The primitive proceedings had and taken under this Commission were, when organized, to elect Mrs. Kate B. Lathrop President, and B. F. Le Warne Secretary. Subsequently notices for publication were prepared, wherein was fully detailed what was required to be specified by those having lands for sale, and to put in their bids to the Commission on a given day in said notice named. These notices were published in many of the newspapers in the different counties of the State, and the result was

that the Commission received one hundred and thirty-seven applications for sales of lands in the various counties of the State. Of these bids more than one half were rejected by the Commission as unworthy of considering, on the ground that they did not come up to the requirements of the law in many particulars. Some had less acreage than required, whilst others bid for prices far beyond our means allowed by law, and others were entirely too remote from travel communications, and devoid of the requirements set forth in our notices. Of the remaining bidders, which were considered, the Commission personally visited and inspected the most of them well and thoroughly, prompted and guided solely without any personal preferences or feelings of favor to any, but looking solely and only for the good and welfare of those children under our care, whose future and permanent home was to be wherever, in our wisdom, we may locate, and having, further, the interest of the people of the State in view, whose Trustees we were for that purpose. We finally selected and bargained for, with your Excellency's approval, what we considered the best offer made to us, and that is what is known as the William McPherson Hill rancho, or farm, situated at or near the town of Glen Ellen, Sonoma County, containing some one thousand six hundred and sixty acres of land, and for the low sum or price of \$50,000. It is needless for us to state that this place possesses all the requirements needed for an institution of this kind; for embraced within it is accessibility, climate, soil, timber, water, and, in fact, everything that is necessary for the purposes, and is well known to many of the people of our State as possessing all the merits we attribute to it.

As before stated, we have only at this time bargained for the purchase of the place at the price above named, the deed of the same being signed and in escrow with Tallant & Co., of San Francisco, to be taken by the State as soon as the purchase money is allowed by the Board of State Examiners and the Controller issues his warrant therefor. It is understood that if the deed pass to the State, that possession will be given by the first

day of January next.

We hope in our next report to be able to report to you what progress we may make towards the erection of buildings on this property. We are having plans prepared of what, in our judgment, will be necessary for buildings for an institution like this, which no doubt will cost far in excess of the appropriation allowed for the purposes; but it is the desire and conclusion of the Trustees to proceed only so far as the appropriation allowed will carry them, and looking to the future Legislature for sufficient means to complete and furnish the same. These plans will all be submitted to the proper officers created by law, for their approval, before adoption by us.

We would respectfully call your Excellency's attention to that part of our Superintendent's report showing the expenses of supporting, maintaining, as well as educating the inmates per capita in an institution like this, given as they are in three different headings, and from which you can readily draw your conclusions and arrive at the proper expense of such in contra to like support and maintenance of inmates in other State institutions of a custodian character. It is to be observed that the expense for labor in an institution like this is far above that in other institutions of like character, arising from the fact that children or wards like those in an institution like this are almost helpless, requiring as they do a larger staff of attendants to look after their care, wants, and education.

In conclusion, we desire to express here our thanks to Captain Oliver Eldridge and George W. Gibbs, Esq., the Commissioners cooperating with us in this work, attending as they did well and faithfully all the meetings of the Commission, and at all times cheerfully and willingly giving valuable and able counsel in our deliberations whenever requested. We also desire to thank your Excellency for the uniform kindness exhibited and the assistance rendered to us and the Commission in all our movements and undertakings so far in this most humane and charitable work.

Respectfully submitted.

MRS. KATHERINE B. LATHROP, President. WILLIAM HARNEY. CHAS. A. MURDOCK. MRS. JULIA M. JUDAH. J. W. FINDLAY.

## REPORT OF THE SUPERINTENDENT.

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

SANTA CLARA, CAL., November 1, 1889.

To the Board of Trustees of the California Home for the Care and Training of Feeble-Minded Children:

Mesdames and Sirs: I herewith submit for your consideration, as required by the statutes of the State, my report of the operations of this institution for the fiscal year ending June 30, 1889. As another annual report will be made by the Superintendent to be incorporated with your biennial report to the Governor next year, before the convening of the Legislature, I have here omitted any special treatment of our work from a professional standpoint, believing that my comprehensive tables and statistics will be found sufficient to meet the desire of your honorable body at this time, and that the more exhaustive consideration of the medical aspect of our specialty will appear more apropos next year.

However, in addition to my tables, as presented to you in my semi-annual report of June 30, 1889, and herein quoted in full, I beg to add the following information:

The average monthly population of inmates for the year was one hundred and five and five sixths.

The average monthly expenditure for maintenance, including salaries, repairs, and the purchase of stock and fixtures, was \$2,222 16.

The average per capita monthly cost was therefore \$20.96; and the average daily per capita cost, 68 cents. If we include in the population the officers and all persons connected with the institution on pay, we have the daily per capita cost reduced to 544 cents, and the monthly average per capita, \$16 43, showing a decrease in cost from previous years per capita per diem of 84 cents, with an increase of 20 per cent in our population.

In considering the per capita expense of this institution over other State institutions, one must not lose sight of the educational feature of the work. A larger staff must be maintained than is necessary for purely custodial care, in order that the inmates may be properly drilled, schooled, and trained. At the lowest calculation possible the school has cost, in salaries and supplies (and this does not include the salaries of such attendants as are doing training work as well as care of inmates), \$2,000 during the year. If this amount was deducted from the above figures we would have the monthly per capita cost, including only inmates, \$19 451, and the daily per capita 64\frac{3}{4} cents.

The per capita cost of maintenance alone, including expenses for living, clothing, etc., was only 21 cents. If we include feed for stock (\$1,112 68) and fuel (\$926 09), the per capita cost was 26 cents per day. If we include the salaries of all persons connected with the institution (\$12,353 94), the cost was 58 cents per day. The school salaries and supplies, however, amounted to \$2,000 per annum. If this be deducted, we have the cost per diem for care, etc., as 53 cents. It has been supposed that our cost per diem was high, but a comparison of our figures does not prove it, and it will not always do to take, without question or allowance, the per capita offered by other institutions in comparison, for the reason that there are

not probably two institutions whose tables are prepared in exactly the same way. It is by a comparison of the same classes of expenses that we can accurately demonstrate relative per capita expenses.

The following tables, showing daily costs, may be of interest, to wit:

Table 1.—Whole population for food and clothing, \$22 27, or 16\frac{2}{2} cents per head.  Table 2.—General expenditures per day, exclusive of food, clothing, and salaries, a Feed for stock.  Fuel (1\frac{1}{2}\$ cents per head).  Administrative Department—expressage, postage, telegraphing, stationery, and school supplies.  Traveling expenses (Trustees and Superintendent).  Light (including gas used in laundry for heating purposes, mangle, etc.).  Laundry expenses and repairs.  Repairs and ordinary expense in and about the building, painting, glazing, and alterations  Farm expenses and purchase of stock.  Furniture, hardware, and engine supplies.	\$3 2 1 1 2 2 1	vs: 05 53 33 97 90 06 27 24 53 00
Total	\$16	88
Table 3.—Salaries per day, as per the several departments, to wit: School purposes Farm and grounds Laundry and water Household and kitchen Administration (including Executive, day and night attendants, office, etc.)	3	80 45 78
		<u></u>
Total	\$33	85
Aggregate per diem: Food and clothingGeneral expenditure Salaries	\$22 16 33	88 85
Per day	<b>\$</b> 73	00
•	<b>\$</b> 73	00
Farm Account.	<b>\$</b> 73	00
Farm Account.  Paid for feed for stock	\$1,112 598 219	68 15 50
Farm Account.  Paid for feed for stock	\$1,112 598	68 15 50
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total  Received from Farm: Products, etc.	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total  Received from Farm: Products, etc.	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total  Received from Farm: Products, etc.	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total  Received from Farm: Products, etc.	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total  Received from Farm: Products, etc.	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total  Received from Farm: Products, etc.	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock.  Paid for fence lumber, repairs, implements, and fixtures.  Paid for live stock.  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents  Eggs, 2,059, value 2½ cents.  Pork, 1,163 pounds, value 10 cents.  Veal, 85 pounds, value 10 cents. Chickens, 50, value 50 cents.  Tomatoes. 109 boxes, value 50 cents	\$1,112 598 219 \$1,930	68 15 50 33
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47	68 15 50 33 43 46 30 50 00 71
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8	68 15 50 33 43 46 30 50 71 76
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 47 8 103	68 15 50 33 43 46 30 50 71 76 56
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 103 9	68 15 50 33 43 46 30 50 00 50 71 76 56 55
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 103 9 9 21	68 15 50 33 43 46 30 50 00 50 71 76 56 55 34
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 7 8 103 9 21 21	68 15 50 33 43 46 30 50 71 76 56 55 34 00
Farm Account.  Paid for feed for stock. Paid for fence lumber, repairs, implements, and fixtures. Paid for live stock.  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents Eggs, 2,059, value 2½ cents. Pork, 1,163 pounds, value 10 cents. Veal, 85 pounds, value 10 cents. Chickens, 50, value 50 cents Tomatoes, 109 boxes, value 50 cents Potatoes, 4,771 pounds, value 1 cent. Corn, 876 ears, value 1 cent Squash, 3,452, value 3 cents Cabbage, 191 heads, value 5 cents. Cucumbers, 2,134, value 1 cent Melons, 168, value 12½ cents Radishes, 162 pounds, value 4 cents	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 103 9 21 21 6	68 15 50 33 43 46 30 50 50 71 76 55 34 00 48
Farm Account.  Paid for feed for stock. Paid for fence lumber, repairs, implements, and fixtures. Paid for live stock.  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents Eggs, 2,059, value 2½ cents. Pork, 1,163 pounds, value 10 cents. Veal, 85 pounds, value 10 cents. Chickens, 50, value 50 cents Tomatoes, 109 boxes, value 50 cents Potatoes, 4,771 pounds, value 1 cent. Corn, 876 ears, value 1 cent Squash, 3,452, value 3 cents Cabbage, 191 heads, value 5 cents. Cucumbers, 2,134, value 1 cent Melons, 168, value 12½ cents Radishes, 162 pounds, value 4 cents	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 7 8 103 9 121 6 15	68 15 50 33 43 46 30 50 71 76 55 55 34 00 48 25
Farm Account.  Paid for feed for stock. Paid for fence lumber, repairs, implements, and fixtures. Paid for live stock.  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents Eggs, 2,059, value 2½ cents. Pork, 1,163 pounds, value 10 cents. Veal, 85 pounds, value 10 cents. Chickens, 50, value 50 cents Tomatoes, 109 boxes, value 50 cents Potatoes, 4,771 pounds, value 1 cent. Corn, 876 ears, value 1 cent Squash, 3,452, value 3 cents Cabbage, 191 heads, value 5 cents. Cucumbers, 2,134, value 1 cent Melons, 168, value 12½ cents Radishes, 162 pounds, value 4 cents	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 103 9 9 21 6 6 15 3	68 15 50 33 43 46 30 50 71 76 55 55 34 00 48 25 25
Farm Account.  Paid for feed for stock	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 7 8 103 9 121 6 15	68 15 50 33 43 46 30 50 71 76 55 55 34 00 48 25 25
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents Eggs, 2,059, value 2½ cents. Pork, 1,163 pounds, value 10 cents. Veal, 35 pounds, value 10 cents Chickens, 50, value 50 cents Tomatoes, 109 boxes, value 50 cents Tomatoes, 4,771 pounds, value 1 cent Corn, 876 ears, value 1 cent Squash, 3,452, value 3 cents Cabbage, 191 heads, value 5 cents Cucumbers, 2,134, value 1 cent Melons, 168, value 12½ cents Radishes, 162 pounds, value 4 cents Peas, 305 pounds, value 5 cents Onions, 325 pounds, value 1 cent Hay, 56 tons, value \$12.	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 8 103 9 21 6 15 15 6 72	68 15 50 33 43 446 30 50 50 71 76 56 53 44 25 25 00 09
Farm Account.  Paid for feed for stock. Paid for fence lumber, repairs, implements, and fixtures. Paid for live stock.  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents Eggs, 2,059, value 2½ cents. Pork, 1,163 pounds, value 10 cents. Veal, 85 pounds, value 10 cents. Chickens, 50, value 50 cents Tomatoes, 109 boxes, value 50 cents Potatoes, 4,771 pounds, value 1 cent. Corn, 876 ears, value 1 cent Squash, 3,452, value 3 cents Cabbage, 191 heads, value 5 cents. Cucumbers, 2,134, value 1 cent Melons, 168, value 12½ cents Radishes, 162 pounds, value 4 cents	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 8 103 9 21 6 15 15 6 72	68 15 50 33 43 446 30 50 50 71 76 56 53 44 25 25 00 09
Farm Account.  Paid for feed for stock Paid for fence lumber, repairs, implements, and fixtures Paid for live stock  Total.  Received from Farm; Products, etc.  Milk, 23,049 quarts, value 7 cents Eggs, 2,059, value 2½ cents. Pork, 1,163 pounds, value 10 cents. Veal, 35 pounds, value 10 cents Chickens, 50, value 50 cents Tomatoes, 109 boxes, value 50 cents Tomatoes, 4,771 pounds, value 1 cent Corn, 876 ears, value 1 cent Squash, 3,452, value 3 cents Cabbage, 191 heads, value 5 cents Cucumbers, 2,134, value 1 cent Melons, 168, value 12½ cents Radishes, 162 pounds, value 4 cents Peas, 305 pounds, value 5 cents Onions, 325 pounds, value 1 cent Hay, 56 tons, value \$12.	\$1,112 598 219 \$1,930 \$1,613 51 116 8 25 54 47 8 8 103 9 21 6 15 15 6 72	68 15 50 33 43 46 30 500 50 71 76 56 55 34 00 48 25 25 00 09 33 3

In the above, no account has been taken of lettuce, young onions, beans, beets, etc.—a very considerable quantity of which was raised and consumed by the Home. Neither is any account taken of the young stock (heifers and hogs) raised during the year. I estimate that the proper balance in favor of our farm should be \$1,000.

## PRESENT POPULATION.

The present population (November 1, 1889) of the institution is: Inmates—Boys, sixty-seven; girls, fifty-one. Total, one hundred and eighteen. Their distribution by counties is as follows:

Alameda	17	San Diego	2
Butte	1	San Francisco	47
Calayeras	1	San Joaquin	i
Contra Costa	ī	San Mateo	
Fresno	1	Santa Barbara	
Humboldt	$\bar{2}$	Santa Clara	
Lake	ī	Santa Cruz	
Los Angeles	5	Sonoma	
Marin	1	Sutter	1
. Monterey	1	Tulare	
Napa	3	Ventura	
Placer	ĭ	Yolo	
Sacramento	3	Hawaiian Islands	1
San Bernardino	4		
San Benito	$\hat{2}$	Total	118
	-		

Respectfully submitted.

A. E. OSBORNE, M.D., Superintendent.

## FINANCIAL REPORT.

SANTA CLARA, CALIFORNIA, July 31, 1889.

To the Board of Trustees California Home for Feeble-Minded Children:

I have the honor to submit herewith my semi-annual report of the financial transactions of this Institution. Included therewith will be found comprehensive tables covering the same transactions for the whole fiscal year ending June 30, 1889. These are made at this time for the purpose of enabling me to report the balances on my books, and to facilitate the auditing and experting of my accounts with the Board of Trustees and the State, in complete adjustment of the transactions under the various appropriations made for the two years concluding with the fortieth fiscal year as above.

The following recapitulation of disbursements for the thirty-ninth and fortieth fiscal years I quote from my report to your Board for the month of June, 1889, which same is now on file:

## For Maintenance.

Total disbursement for maintenance for the thirty-ninth fiscal year, ending June 30, 1888.  Total disbursement for maintenance for the fortieth fiscal year, ending June 20, 120 (1997).	\$25,342 39
30, 1889	26,666 01
Add deficiency claims (thirty-eighth fiscal year)	\$52,008 40 10,921 34
Balance lapsing to the State	\$62,929 74 170 26
Amount of appropriation	\$63,100 00

#### For Improvements.

Disbursements—thirty-ninth fiscal year	\$17,269 18
Disbursements—fortieth fiscal year	4,600 95
Total Balance unexpended and lapsing to State	\$21,870 13 3,129 87
The total appropriation being	\$25,000 00
Unexpended balances being—From maintenance appropriationFrom maintenance (deficiency reserve)From improvement appropriation	\$170 26 10,921 34 3,129 87
Total	\$14,221 47
The average monthly expenses for maintenance for the thirty-ninth fiscal year was	\$2,127 42½ 2,222 16¾
Average monthly excess for fortieth fiscal year	\$94 74 <del>1</del>
The average monthly expense under improvement appropriation was for the thirty-ninth fiscal year  The average monthly expense under improvement appropriation for the fortieth fiscal year	\$1,439 09 <del>§</del> 383 41 <del>1</del>
Semi-annual Statistics.	
Total expenses for maintenance half year ending December 31, 1888	\$12,474 17 14,191 84
[See schedule A]	\$26,666 01
<b>=</b>	
Total expenses from appropriation for improvements for half fiscal year ending December 31, 1888	\$2,165 26 2,435 69
Movement of Population.	\$4,600 95
Population of inmates, January 1, 1889  Population of staff (including all persons on payroll)	106 26
Total	132 . 9 . 1
Total population inmates, June 30, 1889	114 28
Gross population	142
Gross excess of population over January 1, 1889	10 21
Applications, July 1, 1888, to January 1, 1889, 35; admitted, 11; remaining Applications, January 1, 1889, to June 30, 1889, 42; admitted, 4; remaining	24 . 38
Total for the year	62 50
Males Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females Females	30 43
Total	93
Inmates, June 30, 1889: Males Females	66 48
Total	114

Following will be found the tables in full referred to. Also exhibit of Christmas Fund account, showing a cash balance on hand of \$9 60.

All of which is respectfully submitted. (Signed:)

A. E. OSBORNE, M.D., Superintendent.

## SCHEDULE A.

Receipts from the State Controller on Account of the Appropriation for Maintenance for the Fortieth Fiscal Year.
------------------------------------------------------------------------------------------------------------------

October 1—Received warrants 3008 to 3047 from the State Controller October 15—Received warrants 3757 to 3805 from the State Controller Received warrants 3608 to 3609 from the State Controller November 19—Received warrants 5138 to 5183 from the State Controller December 14—Received warrants 6496 to 6590 from the State Controller 1889—January 26—Received warrant 8966 from the State Controller February 21—Received coin from the State Controller March 28—Received coin from the State Controller June 8—Received coin from the State Controller June 21—Received coin from the State Controller	\$1,707 1,654 2,049 90 2,204 2,215 2,539 2,639 1,960 2,145 2,078 1,960 2,145 2,078 1,3099	20 81 30 14 30 62 86 72 57 47 16
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------

\$26,666 01

Payments made from the State Appropriation for Maintenance for the Fo		al Year.
1888—August 17—Payroll, month of July, 1888  8. Foster & Co., supplies  John Sallows, cutting and baling hay  Best & Williams, meats  Dr. A. E. Osborne, Superintendent, contingent expenses	\$953 17	
S. Foster & Co., supplies	258 28	
John Sallows, cutting and baling hay	127 13	
Best & Williams, meats	97 44	
Dr. A. E. Osborne, Superintendent, contingent expenses	49 21	
	40 00	
S. Oberdeener, drugs and medicines	30 90	
R. Howes, fish and poultry	22 35	
R. H. Quincy, ice J. Cereghino, vegetables and fruit	21 85	
J. Cereghino, vegetables and fruit	20 05	
R. A. Swain & Co., crockery	18 05	
W. T. Hyde, fruit J. M. Raney, livery hire	15 25	
J. M. Kaney, livery hire	14 00	
E. H. Guppy & Son, stationery	13 44	
"Alta California," advertising	6 00	
E. S. Bradlee, piano repairs and tuning	5 00	
Santa Clara "Journal," advertising	3 00	
"Alta California," advertising  E. S. Bradlee, piano repairs and tuning  Santa Clara "Journal," advertising  Dunn & Ehlers, painting (signs)	6 00	\$1,707 80
1888-October 3-Payroll, month of August	\$938 65	ψ1,701 CO
S. Foster & Co., supplies	245 01	
J. B. O'Brien, dry goods, etc.	113 74	
Root & Williams mosts	97 69	
Best & Williams, meats	70 10	
J. Widney, supplies	63 35	
J. Cereghino, vegetables	26 95	
MaNail Prog. printing and hinding	20 95 22 95	
McNeil Bros., printing and binding. R. Howes, fish and poultry		
E. H. Guppy & Son, stationery S. Oberdeener, drugs and medicines	19 20	
I M Denov limon kind	6 00	
J. M. Raney, livery hire  Frederick W. Barlow, rubber stamps	3 50	
M. T. Chefferd management	2 80	
M. J. Stafford, newspapers	2 00	@1 G54 90
1996 October 15 Dayroll mouth of Sontombor 1999	\$929 22	\$1,654 20
1888—October 15—Payroll, month of September, 1888	260 80	•
S. Foster & Co., supplies	212 48	
Doct & Williams mosts	106 21	
Best & Williams, meats Dr. A. E. Osborne, Superintendent, contingent expenses	110 21	
R. H. Quincy, coal	110 78	
Tr A Colmol Ladate de	84 00	
W. A. Schrock, bedsteads	52 00	
J. Widney, supplies	51 36	
Ant. Fatjo, supplies	44 25	
C. Hicks & Co., shoes and repairs.	40 90	
S. Oberdeener, drugs and medicines	26 50	
R. Howes, fish and poultry	23 25 29 05	
R. A. Swain & Co., crockery	10 00	
F. W. Munch, blacksmithing	18 90	
J. Cereghino, vegetables, etc.	15 00	
Robert Menzell, plumbing repairs	14 80	
John A. Nace, stationery. Schemmell's Music House, school supplies	10 15	
ceneminen's Music mouse, school supplies	8 64	

W. F. Wilson, repairs	\$4 00	
The Bancroft Company, school supplies	422	
E. H. Guppy & Son, stationery	330	
		\$2,049 81
1888-November 21-Payroll, month of October, 1888	\$937 67	
S. Foster & Co., suppliesFrank S. Widney, insurance	334 08	
Frank S. Widney, insurance	262 50	
Best & Williams, meat	_ 147 10	
Ur. A. E. Osborne, Superintendent, contingent expenses,	146 22	
H. M. Sheldon, wagon. J. Widney, assignee Universal Bakery, bread	. 125 00	
J. Widney, assignee Universal Bakery, bread	- 81 38	
W. A. Schrock, Dedsteads	. 44 00	
C. Tischer, laundry soap	_ 27 00	
J. Cereghino, vegetables and iruit	- 23 35	
S. Oberdeener, drugs and medicines	. 20 55	
R. Howes, fish and poultry J. Widney, assignee J. R. Shields, supplies	- 15 75 - 14 25	
J. Widney, assignee J. R. Shields, supplies.	- 14 20 5 00	
J. Widney, supplies	. 5 00 4 04	
Farmers Union, supplies	. 400	
The Messinger corrison	3 80	
Theo. Messinger, services E. H. Guppy & Son, stationery		
M I Stafford newspapers	2 80	
M. J. Stafford, newspapers Yates & Co., machine supplies	2 50	
Taves & Oo., machine supplies		\$2,204 14
1888-December 15-Payroll, month of November, 1888	\$980 49	
S. Foster & Co., supplies		
R. H. Quincy, coal	140 00	
Notley Bros. wood.	. 125 00	
J. B. O'Brien, dry goods, etc	117 43	
Best & Williams, meats	. 111 05	*
Dr. A. E. Osborne, Superintendent, contingent expenses	101 22	
J. Widney, assignee of Universal Bakery, bread	74 23	
Ant. Fatio. supplies	_ 6780	
R. Howes, fish and poultry	. 48 65	
S. Oberdeener, drugs and medicines	. 30 70	
Farmers Union, supplies	. 28 60	
Farmers Union, supplies C. Tischer, laundry supplies Charles S. Eaton, musical supplies George Free, truckage	21 25	
Charles S. Eaton, musical supplies	. 18 00	
George Free, truckage	. 17 00	
J. Cereghino, vegetables and fruit	15 75	•
J. A. & J. H. Farmer, shoes.	. 13 00	
Holbrook, Merrill & Stetson, school supplies	. 11 91	
Holbrook, Merrill & Stetson, school supplies J. Widney, supplies Osborn & Alexander, school supplies	3 50	
Osborn & Alexander, school supplies	1 85	\$2,215 30
1889-January 26-Payroll, month of December, 1888	\$1.019.16	ф2,210 <b>3</b> 0
R D Chandler coal	325 50	
R. D. Chandler, coal	304 06	
I H Johnson hav	185 97	
J. H. Johnson, hay  Dr. A. E. Osborne, Superintendent, contingent expenses	110 06	
Farmers Union gasoline	95 09	
Farmers Union, gasoline R. H. Quincy, ice and coal	72 69	
San José Manufacturing Company, furniture	61 00	
J. Widney, assignee of Universal Bakery, bread	61 01	
Mrs. Katherine B. Lathrop, traveling expenses	. 44 20	
C. Hicks & Co., shoes and repairs	38 25	
R. Howes, fish and poultry	35 62	
R. Howes, fish and poultry	25 50	
William Harney, traveling expenses	. 22 40	
William Harney, traveling expenses T. W. Hobson, clothing	. 18 75	
J. witney, suppries	. 17 30	
W. F. Wilson repairs	. 16 10	
Mrs. J. M. Judah, traveling expenses	_ 15 80	
George Free truckage	15 20	
J. C. Johnson, harness. E. H. Guppy & Son, stationery.	. 14 00	
E. H. Guppy & Son, stationery	_ 13 30	*
George W. Lord, machine supplies	. 12 76	
William Grey, machine repairs	- 11 85	,
A. A. Withrow, repairing harness	. 9 35	
R. A. Swain & Co., crockery	. 790	
Theodore Messinger, services	- 5 00 - 1 60	
George D. Mukee & Oo., glass		\$2,552 62
		ATIOCH OR

1889—February 22—Payroll, month of January, 1889.  S. Foster & Co., supplies.  J. B. O'Brien, dry goods, etc  Best & Williams, meats.  A. W. Saxe, M.D., medical attendance.  S. Oberdeener, drugs and medicines.  Universal Bakery, bread.  Dr. A. E. Osborne, Superintendent, contingent expenses.  E. J. Baker, feed.  H. S. Crocker & Co., stationery.  Robert Menzell, plumbers' repairs, etc.  Ant. Fatjo, supplies.	. \$1,051	33		
J. B. O'Brien, dry goods, etc.	. 313 . 245	01		
Best & Williams, meats	228	45		
A. W. Saxe, M.D., medical attendance	. 140	00		
S. Oberdeener, drugs and medicines	. 85	55		
Oniversal bakery, bread	. 01 71	59		
E. J. Baker, feed.	. 50	00		
H. S. Crocker & Co., stationery	. 42	00		
Robert Menzell, plumbers' repairs, etc.	. 35	80		
Ant. Fatjo, supplies	. 32	95 60		
Robert Menzell, plumbers' repairs, etc. Ant. Fatjo, supplies Farmers Union, gasoline J. Cereghino, vegetables and fruit C. Tischer, laundry soap J. K. Davis, cart F. W. Munch, blacksmithing McNeil Bros., printing and binding Davis Bros., school supplies R. Howes, fish and poultry E. H. Guppy & Son, stationery Osborn & Alexander, school supplies M. J. Stafford, newspapers	. 26			
C. Tischer, laundry soap	25			
J. K. Davis, cart	. 25	00		
F. W. Munch, blacksmithing	. 24	64		
McNeil Bros., printing and binding	. 16	75 25		
R Howey fish and nonlitry	. 11	92		
E. H. Guppy & Son. stationery.	. 6	81		
Osborn & Alexander, school supplies	. 5	80		
M. J. Stafford, newspapers	. 4	20		
Whittier, Fuller & Co., tools	. 4	60 60		
George Danne frames	. o 3	80		
W. E. Waddams veterinary services	. 3	00		
The John Stock Sons, repairs	. 2	75		
Osborn & Alexander, school supplies M. J. Stafford, newspapers Whittier, Fuller & Co., tools W. A. Schrock, supplies George Denne, frames W. E. Waddams, veterinary services The John Stock Sons, repairs William Grey, repairs	. 2	00		
1000 March 00 Dermell month of Wahrmann 1000	P1 024	60	<b>\$2,639</b>	80
1889—March 28—Payroll, month of February, 1889 S. Foster & Co., supplies A. R. Woodhams, hay Dr. A. E. Osborne, Superintendent, contingent expenses Best & Williams, meats Universal Bakery, bread Farmers Union, supplies B. Hicks, shoes and repairs C. Tischer, laundry soap Joel Frankenberger, wages J. Koenig & Son, shoes Notley Bros., wood O. A. Hale & Co., dry goods, etc. William Grey, machine repairs J. Cereghino, vegetables and fruit Theo. Messinger, services E. J. Baker, feed J. R. Shields, supplies E. H. Guppy & Son, stationery John A. Nace, stationery R. Howes, fish and poultry Osborn & Alexander, school supplies San José Manufacturing Company, repairs to furniture	402	62		
A. R. Woodhams, hav	184			
Dr. A. E. Osborne, Superintendent, contingent expenses	. 179			
Best & Williams, meats	. 110			
Universal Bakery, bread	. 82 . 40			
B. Hicks shoes and renairs	32			
C. Tischer, laundry soap	. 25			
Joel Frankenberger, wages	. 25	00		
J. Koenig & Son, shoes	. 23			
O A Hala & Co. dry goods ato	. 22 . 19			
William Grey, machine repairs	16	70		
J. Cereghino, vegetables and fruit	. 12	55		
Theo. Messinger, services.	. 10			
E. J. Baker, feed	. 9	75 40		
E. H. Gunny & Son stationery	. 6	15		
John A. Nace, stationery.	ŏ	15		
R. Howes, fish and poultry	5	17		
Osborn & Alexander, school supplies	4			
San José Manufacturing Company, repairs to furniture	. 4	80	\$2,268	72
1889—April 17—Payroll, month of March, 1889.  S. Foster & Co., supplies.  Best & Williams, meats  Dr. A. E. Osborne, Superintendent, contingent expenses. G. C. Jenkins, insurance.  J. Widney, assignee of Universal Bakery, bread Farmers Union, gasoline S. Oberdeener, drugs and medicine Ant. Fatjo, supplies J. Koenig & Son, shoes J. B. O'Brien, dry goods C. Tischer, laundry soap J. Cereghino, vegetables and fruit The John Stock Sons, repairs R. Howes, fish and poultry	\$988	65	- Page 1	
S. Foster & Co., supplies	287	20		
Best & Williams, meats	108	42		
Dr. A. E. Osborne, Superintendent, contingent expenses	102 101	98 95		
J. Widney, assignee of Universal Bakery, bread	91	16		
Farmers Union, gasoline	59	65		
S. Oberdeener, drugs and medicine	. 40			
Ant. Fatjo, supplies	37 28	45 75		
J. B. O'Brien, dry goods	28	52		
C. Tischer, laundry soap.	25	50		
J. Cereghino, vegetables and fruit	. 17	35		
The John Stock Sons, repairs	15 9	48 46		
F. W. Munch, blacksmithing	. 9			
George Free, truckage	4	5ŏ		
R. Howes, fish and poultry F. W. Munch, blacksmithing George Free, truckage E. J. Baker, feed O. A. Hale & Co., dry goods, etc.	4			
O. A. Hale & Co., dry goods, etc		75	@1 0 <i>G</i> 0	57
		_	\$1,960	U I

	91 00C 7C
1889-June 8-Payroll, month of April, 1889	φ1,000 70
June 9—8. Foster & Co., supplies	268 60
D. McCarthy, horse	150 00
H. Messing & Co., buggy	99 50
Dr. A. E. Osborne, Superintendent, contingent expenses	94 46
W. A. Schrock, bedsteads	84 00
W. A. Schrock, bedsteads  Best & Williams, meats  John Widney, assignee Universal Bakery, bread	83 91
John Widney, assignee Universal Bakery, bread	62 11
R. Menzell, repairs and supplies	<b>51 61</b>
A. R. Woodhams, cow	50 00
San José Manufacturing Company, furniture	28 00
C Tischer laundry soan	24 00
C. Tischer, laundry soap	18 38
E. J. Baker, feed	18 05
T F Gallus dontister	18 00
T. E. Gallup, dentistry J. Cereghino, vegetables and fruit	16 20
Carbon & Monte plants	15 00
Carboni & Monte, plants	10 69
McGettigan & Coe, bread	
R. Howes, fish and poultry	9 10
E. H. Davies, repairs.	7 60
H. M. Sheldon, repairs	7 00
Yates & Co., machine supplies	
Farmers Union, supplies	4 65
H. S. Crocker & Co., stationery	4 50
E. H. Guppy & Son, stationery	3 50
The John Stock Sons, repairs	2 85
H. A. Pfister, lime	2 00
	\$2,145 47
1889—June 21—Payroll, month of May, 1889	
S. Foster & Co., supplies	335 53
I R O'Reign dev goods ato	144 35
Doct & William a roots	89 99
And World Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of the Council of	89 00
J. B. O'Brien, dry goods, etc Best & Williams, meats Ant. Fatjo, supplies Dr. A. E. Osborne, Superintendent, contingent expenses	87 28
Dr. A. E. Osborne, Superintendent, contingent expenses	
McGettigan & Coé, breadAustin & Phelps, hand-grenadesPacific Manufacturing Company, wood	62 42
Austin & Phelps, hand-grenades	62 42
Pacific Manufacturing Company, wood	38 25
S. Oberdeener, drugs and medicines	54 OV
C. Tischer, laundry soap E. J. Baker, feed J. Cereghino, vegetables and fruit	24 00
E. J. Baker, feed	22 97
J. Cereghino, vegetables and fruit	19 50
Farmers Union, supplies	11 71
Schemmell Music House school supplies	10 34
Mrs. E. A. Yard, fruit R. Howes, fish and poultry	8 88
R. Howes, fish and poultry	8 49
E. H. Guppy & Son, stationery	6 95
M I Stafford newspapers	5 70
M. J. Stafford, newspapers The John Stock Sons, repairs	4 75
McNeil Bros., printing, etc.	4 50
menen bross, printing, eve.	\$2,078 16
1889—July 16—Payroll, month of June, 1889	\$985 54
July 17—S. Foster & Co., supplies	530 90
John Sallows, cutting and baling hay	217 76
A D Woodhome her	202 00
A. R. Woodhams, hay	113 75
Best & Williams, meatsAnt. Fatjo, supplies	87 30
Ant. Faljo, supplies	79 60
Dr. A. E. Osborne, Superintendent, contingent expenses	73 68
W. S. Douglass, agent, fire extinguishers	72 00
8. Oberdeener, drugs and medicines	64 90
Farmers Union, gasoline, etc.	59 90
McGettigan & Coe, bread	57 25
C. Hicks, shoes and repairs	55 50
Cooper & Smith, whitewashers, etc	45 00
Mrs. Katherine B. Lathrop, traveling expenses	44 20
Pacific Manufacturing Company, wood	38 25 s
J. B. O'Brien, dry goods, etc.	36 97
J. Cereghino, vegetables and fruit	<b>35</b> 20
John A. Day, blacksmithing	31 25
R. Menzell, repairs and supplies	30 94
"Morning Times," advertising	27 00
"Morning Times," advertising Mrs. Julia M. Judah, traveling expenses	
The "Examiner" advertising	25 20
	25 20 25 20
Mack & Co., supplies	25 20
Mack & Co., supplies	25 20 25 03
The "Examiner," advertising  Mack & Co., supplies  Geo. H. Powers, M.D., medical attendance  William Harney, trayeling expenses	25 20

Union Ice Company, ice
Paid on Indebtedness Incurred During the Thirty-ninth Fiscal Year.
1888—October 15—Estate of R. K. Ham, buggy   \$50 00 Ant. Fatjo, supplies   26 90 F. W. Munch, repairs   13 40   \$90 30   \$26,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,666 01   \$226,6
Ant. Fatjo, supplies 28 90 F. W. Munch, repairs 13 40  Total \$90 30    \$26,666 01
SCHEDULE B.
SCHEDULE B.
Classified Expenditures made on Account of Maintenance during the Fortieth Fiscal Year.         1889—June 30—To expenditure for crockery       \$91 80         To expenditure for clothing       51 85         To expenditure for dry goods       829 45         To expenditure for expressage and freight       101 03         To expenditure for expense and repairs       829 15         To expenditure for furniture       505 70         To expenditure for feed for stock       1,112 68         To expenditure for fish and poultry       234 90         To expenditure for fuel       926 09         To expenditure for farm       598 15
1889—June 30—To expenditure for crockery       \$91 80         To expenditure for clothing       51 85         To expenditure for dry goods       829 45         To expenditure for expressage and freight       101 03         To expenditure for expense and repairs       829 15         To expenditure for furniture       505 70         To expenditure for feed for stock       1,112 68         To expenditure for fish and poultry       234 90         To expenditure for fuel       926 09         To expenditure for farm       598 15
1889—June 30—To expenditure for crockery       \$91 80         To expenditure for clothing       51 85         To expenditure for dry goods       829 45         To expenditure for expressage and freight       101 03         To expenditure for expense and repairs       829 15         To expenditure for furniture       505 70         To expenditure for feed for stock       1,112 68         To expenditure for fish and poultry       234 90         To expenditure for fuel       926 09         To expenditure for farm       598 15
To expenditure for groceries   3,885 00
To expenditure for stationery, etc. 248 91 To expenditure for telegraphing and delivery 46 15
To expenditure for stationery, etc. 248 91 To expenditure for telegraphing and delivery 46 15
To expenditure for stationery, etc.       248 91         To expenditure for telegraphing and delivery       46 15         To expenditure for traveling expenses       352 30         To expenditure for vegetables and fruit       481 78
To expenditure for stationery, etc.       248 91         To expenditure for telegraphing and delivery       46 15         To expenditure for traveling expenses       352 30         To expenditure for vegetables and fruit       481 78         To expenditure for woodenware, etc.       66 40
To expenditure for stationery, etc.       248 91         To expenditure for telegraphing and delivery       46 15         To expenditure for traveling expenses       352 30         To expenditure for vegetables and fruit       481 78         To expenditure for woodenware, etc.       66 40         \$26,666 01
To expenditure for stationery, etc. 248 91 To expenditure for telegraphing and delivery 46 15 To expenditure for traveling expenses 352 30 To expenditure for vegetables and fruit 481 78 To expenditure for woodenware, etc. 66 40  SCHEDULE C.  Receipts from the State Controller on Account of the Appropriation for Improvements during the Fortieth Fiscal Year.  1888—August 16—Received coin from the State Controller. \$192 60 September 20—Received warrants Nos. 2482 to 2485 from the State Con-
To expenditure for stationery, etc. 248 91 To expenditure for telegraphing and delivery 46 15 To expenditure for traveling expenses 352 30 To expenditure for vegetables and fruit 481 78 To expenditure for woodenware, etc. 66 40  SCHEDULE C.  Receipts from the State Controller on Account of the Appropriation for Improvements during the Fortieth Fiscal Year.  1888—August 16—Received coin from the State Controller 3192 60 September 20—Received warrants Nos. 2482 to 2485 from the State Controller 297 98
To expenditure for stationery, etc. 248 91 To expenditure for telegraphing and delivery 46 15 To expenditure for traveling expenses 352 30 To expenditure for vegetables and fruit 481 78 To expenditure for woodenware, etc. 66 40  SCHEDULE C.  Receipts from the State Controller on Account of the Appropriation for Improvements during the Fortieth Fiscal Year.  1888—August 16—Received coin from the State Controller. \$192 60 September 20—Received warrants Nos. 2482 to 2485 from the State Con-

<b>z</b> 40	<b>9</b> 405		1000 Towns At Desired many 1 No 0007 from the Otate Controller
0 42 1 83			1889—January 26—Received warrant No. 8967 from the State Controller February 21—Received coin from the State Controller
$\vec{6}$ $\vec{39}$			June 8—Received coin from the State Controller
3 93			June 21—Received coin from the State Controller
			July 16—Received coin from the State Controller
—— 0 95	\$4,600	-	
	<b>7-/</b>		SCHEDULE D.
Tear	Fieral V	ortieth Fi	
cui,			Payments made from the State Appropriation for Improvements for the F
		\$100 00 20 00	1888—August 17—George W. Page, laundry
		24 00	Joel Frankenberger, grounds B. A. England, grounds
		25 00	George P Reseatt water
		23 60	George P. Bassett, water
2 60	\$192		
	10	M100 10	September 21—Santa Clara Valley Mill and Lumber Company,
		\$169 10 77 88	buildings
		25 00	Joel Frankenberger, grounds
		26 00	B. A. England, grounds
7 98	\$297		~, 121 211B101141, 61, 941140
	00	\$25 00	October 15-Joel Frankenberger, grounds
		25 00	B. A. England, grounds  Santa Clara Valley Mill and Lumber Company, buildings
		38 45	Santa Clara Valley Mill and Lumber Company, buildings
		33 50 33 42	Robert Menzell, laundry
		26 25	W. W. Montague, laundry
1 69	<del></del>	20 20	w. 1. reterson, bundings
		<b>\$491 90</b>	November 20-North Coast Lumber Company, buildings
		80 26	November 20—North Coast Lumber Company, buildings November 21—Pacific Manufacturing Company, buildings
		21 00	Joel Frankenberger, grounds
		77 00	W. S. Winters, buildings
		63 00	D. W. James, buildings
		33 75 15 00	James A. Grant, buildings
5 91	<del></del>	10 00	L. A. Sweatt, bulldings
J 0.		\$121 19	December 20—Pacific Manufacturing Company, buildings
		67 84	J. Widney, buildings
		39 70	A. Fatjo, buildings
		25 00	Joel Frankenberger, grounds.
		14 00	W. S. Winters, buildings
1 79	— <b>\$281</b>	14 00	D. W. James, buildings
1 10		\$89 25	1889_Rohrnary 4_H P Gregory laundry
	20	ψου 20	1889—February 4—H. P. Gregory, laundry February 3—Santa Clara Valley Mill and Lumber Company,
	64	68 64	buildings
	30	52 30	buildings January 26—D. H. Shields, light
		25 00	Joel Frankenberger, grounds
		26 00	B. A. England, grounds
		46 00 36 00	February 4—Dalzel & Moller, laundry
		29 37	February 23—J. R. Chapman, buildings
		52 86	February 6—Pacific Manufacturing Company, buildings
5 45	<b>\$425</b>		
	75	\$520 75	February 23—George H. Tay & Co., water
		118-50	George H. Tay & Co., laundry
		112 30	February 22—North Coast Lumber Company, buildings
		71 80 50 75	George H. Turner, grounds
		25 00	Inel Frankenherger grounds
		12 88	Joel Frankenberger, groundsRobert Menzell, buildings
		9 90	Pacific Manufacturing Company, buildings
	95	7 95	A. Fatjo, buildings
		2 00	A. Fatjo, buildings H. A. Pfister, buildings
ιQʻ	<del></del>	949.00	<del>-</del>
	Uti.	<b>\$43</b> 06	June 8—Pacific Manufacturing Company, grounds
			Joel Frankenberger, grounds
	00	50 00 13 33	Ralph McNish, grounds
	00 33	13 33	Ralph McNish, grounds
	00 33 — \$106		<del>-</del>
	00 33 \$106 33	13 33	Ralph McNish, grounds  June 21—E. M. Chase, grounds  R. Menzell, water  Pacific Manufacturing Company, buildings

16	CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.	
	July 1—J. H. Griswold, laundry       \$733 00         A. J. Fish & Co., bakery       425 00         July 16—Dr. A. E. Osborne, Superintendent, bakery       100 00         Pacific Manufacturing Company, buildings       40 54         E. M. Chase, grounds       25 00         G. G. Wickson & Co., laundry       20 00	<b>61</b> 040 74
		\$1,343 54
	· ·	\$4,600 95
•	SCHEDULE E.	
Classi	ified Expenditures made from State Appropriation for Improvements during Fr ending June 30, 1889.	iscal Year
1889	-June 30—To expenditures on pavilion, and alterations, additions, and improvements to buildings	\$1,790 09 56 28 569 60 1,205 52 525 00 454 46 \$4,600 95
	COURDAND	<b>42,000</b> 00
n	SCHEDULE F.	<i>a</i> . •
Recei	pts from the State Controller as per Special Appropriation made to cover Deficien during the Thirty-eighth Fiscal Year.	cy Claims
1889–	-March 25—Received from State Controller warrant No. 14390 on the State Treasurer	\$10,921 34 ·
	SCHEDULE G.	•
Paym	nent made from Proceeds of Special Appropriation made by the Legislature to Deficiency Claims and the Interest thereon, Thirty-eighth Fiscal Year.	cover the
1889-	-March 25—Paid Commercial and Savings Bank of San José amount loaned for payment of the deficiency claims of the thirty-eighth	#0.00F 14
	fiscal year Paid Commercial and Savings Bank of San José, interest on said loan.	1,086 20
	<del></del>	10,921 34
	SCHEDULE H.	
Recei	pts from the Parents and Guardians of Children made on Account of Tuition a tenance during the Fortieth Fiscal Year.	nd Main-
1889-	-June 30-Total amount received	
	Received from the sale of junk	
	10tat	<b>ф</b> 5,295 10
	• —	
	SCHEDULE I.	
	Received as Special Gifts and Donations made during the Fortieth Fiscal Yea	r.
1888-	-July 2—From guardian of Walter Dorr. July 16—From Samuel N. Hundley July 17—From O. J. Stough August 1—From Wm. Graves Angust 25—From W. C. Bacon September 6—From guardian of Mary Dieter October 2—From guardian of Mary Dieter November 11—From guardian of Mary Dieter November 29—From guardian of Mary Dieter December 5—From Samuel N. Hundley December 20—From J. O. W. Paine	\$50 00 150 00 150 00 10 00 10 00 15 00 15 00 15 00 15 00 20 00

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.	17	7
1889-January 5-From guardian of Mary Dieter	<b>\$15</b> 0	0
January 30—From guardian of Mary Dieter	15 0	
March 4—From guardian of Mary Dieter	15 00 407 8	N R
April 12—From Miss Law (Watsonville)	79 6	
April 12—From Miss Law (Watsonville)	200 0	
May 31—From O. J. Stough	150 0	0
	\$1,482 5	3
SCHEDULE J.		
Receipts on Account of the Amusement Fund.		
1888—July 4—Cash received from H. R. Judah 1889—January 31—Cash received from unknown party	\$5 00 5 00	
<del></del>	\$10 00	0
SCHEDULE K.		
Receipts from the Superintendent of Balance of Christmas Fund remaining in his	hands.	
1888-September 30-Balance of Christmas fund	\$9 40	0
SCHEDULE L.		
Payments made to the State Treasurer of Receipts for Tuition and Maintenance of Forlieth Fiscal Year.	luring the	e
1888—August 13—To coin forwarded to State Treasurer	\$257 00	)
September 4—To coin forwarded to State Treasurer October 12—To coin forwarded to State Treasurer	187 75	5
November 5. To coin forwarded to State Treasurer	447 00 226 00	
November 5—To coin forwarded to State Treasurer December 3—To coin forwarded to State Treasurer	209 00	
1889—January 9—To coin forwarded to State Treasurer	281 00	3
March 25—To coin forwarded to State Treasurer  March 25—To coin forwarded to State Treasurer  April 15—To coin forwarded to State Treasurer	150 00	
April 15To coin forwarded to State Treasurer	150 50 361 00	
July 2—To coin forwarded to State Treasurer	170 00	
<u></u> -	\$2,439 25	5
SCHEDULE M.		
Special Cash Balances, and how Invested		
Cr		
1889—June 30—By balance of Special Donation Fund	\$1,977 13	
By balance of Income Fund	854 50 60 00	
By balance of Christmas Fund	9 40	
Dr. =	\$2,901 03	}
1889—June 30—To loan made (special) Bank Santa Clara County	\$1,000,00	١
To loan made (special) to Board of Trustees	300 00	,
To cash in hands of B. D. Murphy, Treasurer	1,601 03	
·	\$2,901 03	ì
SCHEDULE N.		
Recapitulation of Receipts and Expenditures during the Fortieth Fiscal Year	ı	
Cr.	A 00 = 00	
1888—July 1—By cash balance in hands of Treasurer  By cash balance in hands of Trustees	\$625 00 100 00	
1889—June 30—By warrants and coin from State Controller, on account of		
maintenance for the fortieth fiscal year	26,666 01	
By warrants and coin from State Controller, on account of improvements fortieth fiscal year	4,600 95	,
282	.,	

and maintenance.

By cash received from sale of junk, etc.

By cash received from special donations
By cash received for Amusement Fund
By cash received, balance of Christmas Fund

· Dr. 1889—June 30—To amount paid local creditors for maintenance fortieth fiscal

To amount paid loan made by Commercial and Savings Bank of San José, on account of deficiency claims thirty-eighth fiscal year \_\_\_\_\_
To amount paid Commercial and Savings Bank for interest on loan, as

cial Fund
To cash in lands of Trustees
To cash in hands of Treasurer

EXHIBIT A.
Christmas Fund, 1888—Receipts in Cash.

1888—December 12—C. A. Merkle, San José.

W. S. Bowne, Santa Clara.

December 13—J. B. Randol, New Almaden.

Mack & Co., San Francisco.

Mrs. M. Brown, San Francisco.

December 14—W. H. Thomas, San Francisco.

Rev. A. L. Kellogg, Santa Clara

Edward Myall, Agnews.

Bank of Gilroy, Gilroy.

George T. Taylor, San Francisco.

December 15—George L. Beaver, Santa Clara

Miss Lillie Pardon, Monterey

December 16—R. Menzell, Santa Clara

December 17—E. C. Snyder, Ferndale

W. J. Curtis, San Bernardino.

George W. Alexander, San Francisco

David Jacks, Monterey

A. N. Towne, Southern Pacific Railroad Company, San Francisco.

T. H. Goodman, Southern Pacific Railroad Company, San Francisco.

J. A. Fillmore, Southern Pacific Railroad Company, San Francisco.

W. Morrison, Columbus, Ohio

Ariel Lathrop, San Francisco....

W. H. Goucher, Los Angeles
R. N. Pratt, Southern Pacific Railroad Company, San Francisco
Sale of four tidies contributed by four children

C. Hicks & Co., Santa Clara
G. C. Jenkins, Santa Clara
Sale of children's work by Miss A. Jones
August Harms, Pleasanton
Mrs. Hanson (Sunday School collection, San Francisco)

H. Claussen, Point Reyes.

H. Claussen, for H. Holmberg.

Thomas J. Hannon, Los Angeles
Philip Dieter, San Francisco
Mrs. Wm. Alley, San Francisco
December 20—Rinda Berry, San José

Mrs. W. C. Bacon, Hueneme
December 18—Miss E. W. Peck, sale of goods

year \$26,666 01
To amount paid local creditors for improvements 4,600 95

6 25

> 9,835 14 1.086 20

> 2,439 25

1,000 00 180 40 300 00

1,601 03 \$47,708 98

2 50

1 25 3 00

15 00

5 00

10 00

5 00 2 00

1 00

2 00

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.	19
Mrs. Henry P. Bowie, San Mateo	\$5 00
Jacob Eberhard, Santa Clara	10 00
A friend, San Francisco Richard Burnett, San Francisco	2 00 1 00
Mrs. H. L. Jessup, San Francisco.	5 00
H. Leonard, Santa Clara	2 50
H. Leonard, Santá Clara C. H. Worthington, Santa Clara	1 00
J. B. O'Brien, Santa Clara	5 00 10 00
Wm. T. Wilson, San Francisco Frank P. Maguire, Santa Barbara	5 00
J. O. W. Paine, San Diego Mrs. Cordelia Sheppard, Oakland	2 00
Mrs. Cordelia Sheppard, Oakland	5 00
Mrs. Hannah L. Dodge, Oakland	5 00 1 00
December 21—Sale of children's work  Santa Clara Mill and Lumber Company, San José	10 00
Mrs. E. Patterson Linden	1 00
Mrs. P. Grace, Madera Mrs. B. D. Miller, Sacramento	2 50
Mrs. B. D. Miller, Sacramento	2 50 5 00
Mrs. A. J. Snodgrass, Ventura  E. A. Tinkelpaugh, San Bernardino  Wm. A. Tyson, Woodland  Mrs. B. V. Weeks, Pescadero	1 00
Wm. A. Tyson, Woodland	5 00
Mrs. B. V. Weeks, Pescadero	2 50
Mrs. Albert Page, Emmett	1 00 5 00
Mrs. A. E. Wells (for Margaret Kenna)	1 00
I. Zinnamon (for Thoroga Simonson)	2 50
Two little boys, Selby  December 22—Camilo Martin, San Francisco  Miss J. Knowlton, Watsonville  Mrs. C. Tobin, San Francisco	14 00
Miss T Knowlton Wattin, San Francisco	6 00 10.00
Mrs. C. Tobin. San Francisco.	10.00
Mrs. Peterson, Napa Miss Gertrude Clough, San Bernardino.	5 00
Miss Gertrude Clough, San Bernardino.	5 00
December 24—S. Goldsmith, Santa Ana. Cbris. Keebler (per Mrs. Kelsey), Los Angeles	1 00 5 00
John T. Riorden, Valleio	2 50
E. Folks, San Bernardino	2 00
S. Oberdeener, Santa Clara	5 00
R. B. Chadwick, Sacramento December 25—Mrs. Judge Belden, San José	1 00 5 00
Chas. Lutgen, San Francisco	5 00
Chas. Lutgen, San Francisco T. A. Harms (for Emma Harms)	1 00
·	\$410 95
	<b>4-20</b> 00
EXHIBIT B.	
Cash Disbursements, account of Christmas Fund.	
	\$25 00
1888—December 12—Lot of assorted gifts (K. B. L.)	
1888—December 12—Lot of assorted gifts (K. B. L.)  December 17—Charles Eaton, musical supplies	4 40
1888—December 12—Lot of assorted gifts (K. B. L.)  December 17—Charles Eaton, musical supplies  Expenses to and from San Francisco, including cash purchases	16 75
1888—December 12—Lot of assorted gifts (K. B. L.)  December 17—Charles Eaton, musical supplies  Expenses to and from San Francisco, including cash purchases  December 18—Expressage on goods  December 27—Maurica O'Brien San Loss candy	16 75 2 70
1888—December 12—Lot of assorted gifts (K. B. L.)  December 17—Charles Eaton, musical supplies  Expenses to and from San Francisco, including cash purchases  December 18—Expressage on goods  December 27—Maurice O'Brien, San José, candy  O. A. Hale & Co., San José, dry goods	16 75 2 70 16 10
1888—December 12—Lot of assorted gifts (K. B. L.)  December 17—Charles Eaton, musical supplies  Expenses to and from San Francisco, including cash purchases  December 18—Expressage on goods  December 27—Maurice O'Brien, San José, candy  O. A. Hale & Co., San José, dry goods  1889—January 9—Louis Duncan, Santa Clara, supplies	16 75 2 70
1888—December 12—Lot of assorted gifts (K. B. L.)  December 17—Charles Eaton, musical supplies  Expenses to and from San Francisco, including cash purchases  December 18—Expressage on goods  December 27—Maurice O'Brien, San José, candy  O. A. Hale & Co., San José, dry goods  1889—January 9—Louis Duncan, Santa Clara, supplies  Golden Rule Bazaar, Christmas gifts	16 75 2 70 16 10 81 10 7 00 84 95
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper  January 10 J. R. O'Brien syndries (gifts)	16 75 2 70 16 10 81 10 7 00 84 95 8 75
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper  January 10 J. R. O'Brien syndries (gifts)	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper  January 10 J. R. O'Brien syndries (gifts)	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 75
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper  January 10 J. R. O'Brien syndries (gifts)	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 75 5 25
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts). January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office)	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 7 00 5 25 3 50
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts) January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office) Ties, etc., for boys Harry Tuck San José, orchestra	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 75 5 25 3 50 3 00
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts). January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office) Ties, etc., for boys Harry Tuck, San José, orchestra Masquerade supplies	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 75 5 25 3 50 3 00 15 00 3 00
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts). January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office) Ties, etc., for boys Harry Tuck, San José, orchestra Masquerade supplies Entertainment and stage supplies.	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 4 00 5 25 3 50 3 50 15 00 3 00 12 15
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts) January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office) Ties, etc., for boys Harry Tuck, San José, orchestra Masquerade supplies Entertainment and stage supplies March 15—Professor Raney, musical entertainment April 27—Cakes from baker	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 5 25 3 50 3 00 15 00 3 00 12 15
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts) January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office) Ties, etc., for boys Harry Tuck, San José, orchestra Masquerade supplies Entertainment and stage supplies March 15—Professor Raney, musical entertainment April 27—Cakes from baker	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 4 00 5 25 3 50 3 00 15 00 3 00 12 15 10 00 1 50 4 50
December 18—Expressage on goods December 27—Maurice O'Brien, San José, candy O. A. Hale & Co., San José, dry goods 1889—January 9—Louis Duncan, Santa Clara, supplies Golden Rule Bazaar, Christmas gifts D. R. Niver Publishing Company, Sunday School paper January 10—J. B. O'Brien, sundries (gifts). January 17—Subscription to Art Amateur, one year Blake's books of gymnastics, for school Postage, etc. February 1—Printing ("Journal" office) Ties, etc., for boys Harry Tuck, San José, orchestra Masquerade supplies Entertainment and stage supplies. March 15—Professor Raney, musical entertainment April 27—Cakes from baker May 29—Watch for Frank Manning. June 16—The Fair San José (three tents)	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 15 00 3 00 15 00 1 50 1 50 4 50 2 2 80
January 17—Subscription to Art Amateur, one year  Blake's books of gymnastics, for school  Postage, etc.  February 1—Printing ("Journal" office)  Ties, etc., for boys  Harry Tuck, San José, orchestra  Masquerade supplies  Entertainment and stage supplies.  March 15—Professor Raney, musical entertainment  April 27—Cakes from baker	16 75 2 70 16 10 81 10 7 00 84 95 8 75 27 40 4 00 4 00 5 25 3 50 3 00 15 00 3 00 12 15 10 00 1 50 4 50

21

## EXHIBIT C.

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

#### Special Disbursements, account Christmas Fund.

Cash expended, account of H. Holmberg	1 00 1 00 2 50
	\$10.50

#### EXHIBIT D.

#### Recapitulation of Expenditures, account of Christmas Fund.

General expenditures	10.50
<del></del>	\$410 95

#### EXHIBIT E.

#### Donations to Christmas Fund, other than Cash.

December 13, 1888-Mrs. M. Brown, San Francisco, box of apples, two boxes candy, and tree decorations.

December 15, 1888—Mrs. Wilshire, No. 1804 Sutter Street, San Francisco, and Wilshire Safe and Scales Co., Nos. 204-206 California Street, San Francisco, box with doll, two pairs shoes, five pairs stockings, doll bonnet, flannel shirt, box of candy, wheel bell, tin goat, box large A B C blocks, picture paper, rubber sheep, two business directories of San Francisco, small book of proverbs, five Christmas cards, perforated slate drawing cards, box of building blocks, illustrated catalogue, San Francisco, one volume Baby Land (bound), Prodigal Son, picture book of domestic animals, object teacher, and Christmas dolls.

December 15, 1888—Mrs. W. C. Bacon, for Lulu, box small A B C cards, three bibs.

December 18, 1888—Lottie Vander Naillen, San Francisco, five picture books, transparent

drawing slate, two horns, two handkerchiefs, sixteen Japanese boxes (small), candies, one Japan box, one wool sheep, one tub, one image, two toy watches, one wood pitcher, one (toy) heifer, one kaleidoscope.

December 19, 1888—Charles S. Eaton, San Francisco, three dozen harmonicas.

December 19, 1888—Mr. Jefferson, six story books.

December 19, 1888—Methodist Depository, San Francisco, one and one third dozen

Christmas cards.

December 19, 1888—Mrs. E. Friend, San Francisco, one jersey, one fancy box, two hand-kerchiefs and blue ruches, Christmas cards, one apron, pocketbook containing 75 cents,

two pairs stockings, one skirt, three pairs drawers, two vests.

December 19, 1888—George Hooper, one box candies.

December 19, 1888—Unknown, one dozen tree ornaments, one box, one dozen favors, Santa Claus, one bird and nest (toy), three tree figures, two candy boxes, violin and bow (toy), one image.

December 19, 1888—Captain Merithew, box almonds.
December 19, 1888—Mrs. A. E. Wells, for Margaret Kenna, cakes, one box candies, music box, satchel, breastpin, pair earrings, card.
December 19, 1888—W: H. Hobson & Co., San José, nine pairs boy's pants.
December 19, 1888—Miss Hannon, Los Angeles, for brothers Willie and Ellie, two books,

two silk handkerchiefs, two silk scarfs.

December 19, 1888—Bay Farm Island (Alameda) Sunday School, by Mrs. L. H. Nolter, December 19, 1888—Bay Farm Island (Alameda) Sunday School, by Mrs. L. R. Noter, 132 Oak Street, two Testaments, ten gospel hymns, 1, 2, 3, twenty-six youth's story books. December 19, 1888—Mrs. B. V. Weeks, Pescadero, three handkerchiefs, one tie, twenty-two picture cards, twenty-one primer picture books, sixty-three copies "Well Spring."

December 19, 1888—J. W. Kerr, for Alice, one pair shoes, one worsted hood, one night-

December 19, 1888—J. W. Kerr, for Altee, one pair stock, one worsted hood, one higher gown, one doll, one pair drawers, one handkerchief.

December 21, 1888—Farmers Union, one box raisins, one paper bag of nuts.

December 21, 1888—Mrs. Brown, San Francisco, for Margaret, one fancy shell box, five handkerchiefs, blue and red ribbons, remnant of calico, one doll.

December 21, 1888—Mrs. Weidemuller, for Charlie, three handkerchiefs, one tie, two pairs stockings, Waterbury watch (silver), one box of candies.

December 21, 1888—L. Zinnamon, five primer picture books, package (about one hundred and fifty) early.

December 21, 1888-Newman & Levison, San Francisco, eight woolen sheets, five pairs woolen leggins, three worsted mitts, three pairs woolen stockings, fifteen pairs assorted stockings, one hat, one box tree ornaments.

December 21, 1888-Mrs. Harris, for Bennie, two collars, one tie, one pair stockings, two sheets.

December 21, 1888—A. W. Woodams, one box fruit, two boxes raisins, prunes, and plums.

December 21, 1888—Camilo Martin, for Leo, tie and box of candy.

December 21, 1888—Thomas Riley, Santa Clara, box of candy (ten pounds).

December 21, 1888—Mrs. M. E. Camplin, San José—Box raisins, box candies (twelve pounds), one shirt.

December 21, 1888-Mrs. J. S. Potts, three fancy straw boxes, three autograph albums,

December 22, 1888—Mrs. Page, for Pearl, one doll, three pairs stockings, two knit shirts. December 22, 1888—Mrs. Page, for Pearl, one doll, three pairs stockings, two knit shirts. December 22, 1888—James A. Hoffman, box Christmas cards (assorted). December 22, 1888—Mrs. F. Wilson, for Maud, one fan, one Jersey, two worsted dresses, are called a proper ships and the christ two learns and forms and light are stockings.

one calico apron, two calico skirts, two large and four small pictures.

December 22, 1888—Mrs. Mary Giles, for Eddie, one box candy, one harmonica, hand-

December 22, 1888—Mrs. Manning, for Frank, two white shirts.

December 22, 1888—Two little boys, Selby, California, one pair mitts, one package Sunday School papers, one doll, one box Scriptural and advertising cards, one lot marbles, seven story books, one drum, one kilt suit.

December 22, 1888—Mrs. H. M. Jessup, for Louis, large portrait of his father.

December 22, 1888—Mrs. J. Harris, one box fancy cakes.

December 22, 1888—Mrs. Oliver Eldridge, San Francisco, Christmas number of "Illustrated London News," roll of chromos and cards, fifty candy bags, one box candies, lot assorted nuts, one box figs, one box Christmas cards, two paper bags popcorn.

December 22, 1888—W. D. Ewer & Co., San Francisco, large box candy.

December 22, 1888—Mrs. Crocker, San Francisco, box of paints, five dolls, two mats, small basket, wheelbarrow, two doll hats, two woolly sheep, two (toy) horses, four woolly bide one of the care for the control of the control of the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the care for the ca

birds, one doll dress, six doll shoes, one fancy box, four (toy) houses, fifteen fancy boxes candy, five fancy boxes (empty), fifty-four Christmas cards, one doll head, one box blocks, nineteen books, four toys, one accordion, one music box, three chairs, lounge, and table for doll house, one safe (toy), parasol.

December 22, 1888—Swain & Co., twenty-seven vases (assorted), seven images, six swing

December 22, 1888—Mrs. Peterson, fourteen cards, three baseballs, twelve books, fourteen china toys, six whistles, one cat, four doll dishes, four tops, two woolly sheep, six dolls, five tin toys.

December 22, 1888-Mrs. Jones and Mrs. Hutchinson, Fullerton, California, for Etta

Jones, photograph, one box candy, raisins.

December 22, 1888—Mrs. N. D. Fuller, for Douglass, one circus sports, two boxes candy, one Santa Claus, one toy pistol, one slate for the Home, also one drawing slate and one train of cars.

December 22, 1888—Mrs. Aigeltinger, for C. Kelsey, one silk handkerchief.

December 22, 1888—Mrs. Robert Bentley, for Eddie, one game and one silver watch.

December 22, 1888—Mrs. Sarah E. Dorr, for Walter Dorr, one "Cock Robin."

December 22, 1888—Mrs. Nannie T. Gregg, one pair stockings, one book, one toy. December 22, 1888—Mrs. McDonald, for S. N. Hundley, one trumpet, one linen collar,

one necktie.

December 22, 1888—Mrs. N. D. Fuller, one tin ferryboat, one rubber ball, one toy cow, one Santa Claus.

December 22, 1983—For Anna Glendening, from Lana, one book autumn leaves; also, from father, one lot of cards, lace handkerchief, two cotton handkerchiefs, pair mitts, card game and counters.

December 22, 1888—Mrs. Folk, for Leon, book of animals and birds.

December 22, 1888—Mrs. Kennedy, for Griffen, pair of wristlets, Christmas card, and picture papers.

December 22, 1888—Mrs. Linn, Ventura, California, for Philip, lot of cards, tie, and books. December 24, 1888—Mrs. S. Folks, San Bernardino, two pairs of stockings, one box candy, one silk scarf tie, one silk handkerchief, four linen handkerchiefs, one pair suspenders.

December 24, 1888—Thomas J. Maguire, for Willie, two pairs stockings, one chime of bells, one box handkerchiefs.

December 24, 1888-T. A. Harms, for Emma, one flannel skirt, one napkin ring, one cake,

one photograph album.

December 24, 1888—Schemmell's Music House, San José, six harmonicos, one box transfer paper, two autograph albums, one writing companion, seven picture books, three Climax

December 24, 1888—Mrs. A. L. Thompson, for May, two aprons, one bag candy, and one

box candy for the Home.

December 24, 1888—A. J. Snodgrass, for Claude, one tin plate, two picture books, lot of

December 24, 1888-Mrs. M. Perry, Monterey, for Carrie, one white dress and handker-

chief, one wool skirt, two dolls, one knit hood, one muslin pattern (for dress), one cake, twelve handkerchiefs, one bag candy, two boxes popcorn.

December 24, 1888—Mrs. C. Borger, for Milton, one ball, music box, two boxes cakes, and

building blocks.

December 24, 1888-Mrs. A. J. Snodgrass, for Claude, one football, flageolet, top, rubber

balloon, trumpet, two oranges, and bag marbles.

December 24, 1888—Lillie Risdon, one piece ribbon, two fancy handkerchiefs, four pairs

stockings, one bag candy, popcorn, two rubber balloons, three rubber balls, two harmon-

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

December 24, 1888-Mrs. McCarthy, for Thomas, nine oranges, one fruit cake, one lot candy and apples.

December 24, 1888—Unknown, from Valley Springs, one box cakes.

December 24, 1888—Mr. Harris, Santa Clara, one bag nuts.

December 24, 1888—Mr. Woodams, Santa Clara, one bag nuts and two cakes.

December 24, 1888—Hugh Hamilton, Sr., one dozen doughnuts, small bag candy, fancy cakes, two boxes choice candy, three toy watches, four tin horns, one pair socks, two large cakes, four picture books, two picture books (for Hugh), four jumping jacks, one toilet brush holder, four small dolls, three dozen favors.

December 24, 1888-Mrs. B. Cunningham, Campo Seco, for Milton Borger, three copies of

The Disciples," nine jars of preserves.

December 24, 1888—Elihu Wright, Santa Cruz, for Morris, pair mittens. For the Home, two oilcloth bibs, seven collars, four pairs children's drawers, dress calico, A B C blocks, six boy's aprons, four waists, two shirts, doll, toy dustpan and brush, box of popcorn, iron wagon, four pairs socks, five books, dissected blocks, bundle of cakes, two pairs stockings, packet of candy, popcorn, and bell. For Morris, tool chest, toy chromotrope, one book, one shirt, two packages candy, book, handtop, harmonica, marble figure game, watch, Christmas cards, picture paper, two handkerchiefs.

December 24, 1888—Unknown, Oakland, two slates, fifteen books, one box puzzle blocks, copies Harper's Bazaar.

December 24, 1888—Mr. Springer, for Mildred, one box candy, one pair shoes, one corset.

December 24, 1888—T. H. Shields, Santa Clara, one bag almonds.

December 24, 1888—J. H. Elliot, for Dick, one harmonica, one fancy pitcher of cologne, one necktie and pin, silk handkerchief, one pair suspenders.

December 24, 1888—Mattie Manning, for Frank, one hat.

December 24, 1888—Mr. Kreutzman, for Theodora, one pair shoes, one bag candy, two pairs stockings, one comb, looking-glass, toilet case, three fancy handkerchiefs, three linen handkershiefs one hook and Christman cards. handkerchiefs, one book, and Christmas cards.

December 24, 1888—Doxie, Palace Hotel, nine scent bags, one lot Sunday School papers, one keyholder, Christmas cards, nine copies "Churchman."

December 24, 1888—W. J. Curtis, for Victor, apples, oranges, almonds, one box candy,

book, card, five pairs stockings, necktie, one pair suspenders, one bag raisins, two shirts.

December 24, 1888—Nathan Dorrhman & Co., San Francisco, eighteen match safes, twelve china vases, twelve fancy pothooks, twenty-four glass pots (for the same), twelve reflectors, six china pitchers.

December 24, 1888—Mrs. Charles Crocker, one box candy, two bags nuts, one bag of cakes. December 24, 1888—Mrs. Vander Naillen, for Mary, six oranges, one pair slippers, one bottle cologne, one piece ribbon, one cake of chocolate, two handkerchiefs, two pieces music, photograph album, one ulster,

December 24, 1888—Mrs. Fortson, for Edna, one box of blocks, two scrapbooks, one box

December 24, 1888-Mrs. Field, for Alfred, one pair shoes, one hat, one picture book, one

collar, one tie, one musical instrument, picture of birds.

December 24, 1888—Mrs. Ellis, for Arthur, three oranges, one turtle (toy), trumpet, and

December 24, 1888—Levi Strauss & Co., two boxes oranges, one box candy.

December 24, 1888—Mrs. Spencer, for Truman, one pair shoes, one box candy.

December 24, 1888—A. Block, Santa Clara, one wagon load apples, one bag nuts.

December 24, 1888—R. H. Hatch, Spanishtown, California, for Myra, three dolls, ribbon,

one box handkerchiefs, picture card, pair mittens, and cloak.

December 24, 1888-Mrs. N. D. Fuller, San Francisco, one wheelbarrow, set of garden

December 24, 1888—E. H. Guppy & Son, San José, two dolls, four hells, three boxes A B C blocks, "1776" game cards, one workbox, two photograph albums, four rubbers and sponges, two games, three autograph albums, five boxes paints, lot of small images, six school companions (tin), five pencil and pen holders, one writing desk, two jacks.

December 26, 1888—Bessie and Charlie Lewis, San José, one package of dolls.

December 26, 1888—Mr. Ariel Lathrop, twenty-four yards of ribbon (for working girls).

December 31, 1888—Mr. E. Wright, for Morris, horn, watch, handkerchiefs, neckties.

December 31, 1888—A I Spedgrass for Claude how cakes analyse armore and conditions.

December 31, 1888—A. J. Snodgrass, for Claude, box cakes, apples, oranges, and candy.

#### INVENTORY JULY 1, 1889.

Article.  Six bedsteads (wood)aggregate One hundred and seventeen bedsteads (iron)average Two bedsteads (iron), double One bed lounge	Cost Price.	Market Value.
Two bedsteads (iron), double		
Two bedsteads (iron), double		\$139 00
One hed lounge	\$7 00	819 00
	11 00	22 00 20 00
One buffet		23 50
One buffet  Eighteen bureaus  Thirteen blankets, white  Two hundred and fourteen blankets, gray  Eighteen blankets, gray	8 00	144 00
Thirteen blankets, white	8 00	104 00
Two hundred and fourteen blankets, gray	4 75	1,016 50
Four blankets, horse. One bell	4 25	17 00
One bell		12 75
Four bells, table and hall aggregate One boiler, galvanized (one hundred gallons)		5 20
One boiler, galvanized (one hundred gallons)		34 00
One boiler, portable (zinc) Two boilers, mush (large)	5 00	8 00 10 00
Three hollars agate	2 50 1	10 50
One battery, galvanic		75 00
Batteries, electric, with outfitestimated		18 00
Thirteen benches, school (one hundred and five feet, at 40 cents per		
_ foot)		42 00
One battery, galvanic Batteries, electric, with outfit	1 25	2 50
1 wo benches, wash	.i 190	3 0
Eight blackboards	1 00	40 0
Two bread boards	75	15
One bread tray	- ''	10
Fifteen brooms	30	4 5
One meat cutter (patent)		
One meat cutter (patent) One broiler		1 5
Two blocks and tackle (sets)	l	.  55
Fourteen brackets for lamps.	. 40	5 6
Fourteen bottoms for lamps (illuminating)	. 30	4 2
HOUR DASKER (DAMMAR)	- KINI	24 0
Six baskets, clothes Four baskets, house	. 834	5 0 2 0
Three baskets, waste		1 8
Four barrels, water	1 50	60
One barrel, oil		Žŏ
One barrel, oil Two barrels, half ironbound	1 00	$\bar{2}$ 0
Three buckets, tin	.  20	6
Three buckets, agate	70	2 10
Fifteen brushes, hair	. 20	3 0
Three brushes, floor	1 25	3 7
Six brushes, scrubbing		1 2
Two book rests	75	1 50
One book (institution Bible) One book, Webster's Unabridged Dictionary		12 0
One set books. Political Code of California		3 0
One set books, Political Code of California Six books, Statutes and Amendments, California		7 5
One book, San Francisco City Directory One book, County of Santa Clara Directory Institution library estimated		5 0
One book, County of Santa Clara Directory		3 0
Institution libraryestimated		50 0
Eighteen cribs	1 5.00	90 0
SIX COIS	.1 2 00	12 0
Three clocks, largeaggregate		75 0
Two clocks, medium aggregate	1 50	85
Five clocks, small Seventy-two comfortables for beds	1 50	108 0
Two chairs, office revolving	7 50	15 0
Two chairs, office arm, walnut	3 00	6 0
Fourteen chairs, cane seat, walnut	.  150	21 0
One hundred and three chairs, cane seat, oak	. 100	103 0
Seventy-one chairs, perforated seat	. 60	42 6
Nine chairs, rockers, large	2 25	20 2
Seven chairs, rockers, sewing	. 150	10 5
Three chairs, rockers, carpet.	1 4 50	13 5
Three chairs, children's high	1 25	3 7
Four chairs, children's small One hundred and fifteen and one half yards carpet, parlor, dining,	.] 75	3 0
and Superintendent's room	1 50	173 2

## CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN. INVENTORY—Continued.

. ARTICLE.	Cost Price.	Market Value.
Two hundred and twenty-five yards carpet, sleeping rooms	\$1 12½	\$235 12
Thirteen and one half yards carpet, stairs	2 00	27 00
Twenty-three carpet mats	1 00	23 00
Seven curtains (chintz)	2 00	14 00 2 50
Two curtains (lace)	4 50	9 00
One commode		3 50
Three cuspidors	50	1 50
Four closets, portable	4 00	16 00
One clothes press		6 00
Sixteen clothes bags	80	12 80
Twelve combs	20 35	2 40
Two combs, curry	75	1 40 1 50
Three casters, table	1 50	4 50
One churn		3 50
Two coffee mills	1 00	} 2 25
	1 25	} 2 25
Two crumb pans	50	1 00
Two crumb brushes	35	70
One cornpopper Three colanders	40	50 1 20
Two cake turners	20	40
One candlestick		20
One cultivator		12 00
One cooler, water		8 75
Eleven cows	45 00	495 00
Four calves.	7 50	30 00
Fifty chickens	50	25 00
Thirty-two cloths for tables (white)	2 00	64 00
Two cloths for tables (colored) One chopping bowl	3 00	6 00 1 50
One coal box		2 00
One chest for flour (zinc lined)		6 00
Two cutters for biscuits		20
Four coal scuttles	75	3 00
Two coal shovels	15	30
One cart (farm)		25 00
One cleaver (meat)		1 50
Cutlery, to wit: Three carving sets	2 50	7 50
Three nutcrackers		2 00
Ninety-nine table forks	07	6 93
Two carving forks	. 40	80
Fifty-six plated forks	57½	. 21 00
Four bread knives	1 50	6 00
One hundred and forty-nine table knives	10 25	14 90 1 00
Four butter knives One carving knife		1 25
Three chopping knives	75	2 25
One potato knife		25
One palate knife		40
One pair shears (office)		65
Forty-seven dessert spoons	37½	17 63
Six iron spoons	10	60
Six kitchen spoons	20	1 20 13 00
Twenty-six tablespoons One hundred and forty-seven teaspoons	50 25	36 75
Crockery:	20	00 10
Ninety-six bowls	10	9 60
Two bowls, sugar, glass	1 50	3 00
One bowl, sugar, china		50
Two bowls, sugar, stone	25	50
Twenty bowls, soup, china	21	4 20
Six bowls, large yellow	25	1 50 3 96
Sixty-six cupsSeventeen cups, agate	06 05	3 90 \ 85
Four cups, egg.	06	24
Two celery glasses	1 50	3 00
• O-:		

## INVENTORY—Continued.

ne cake dish	Cost Price.	Market
ne cake dish	1	Value.
		\$0.5
our cruets, vinegar	\$0 20	80
wo chambers	35	6
hirty-two salt cellars welye dessert dishes, glass	02	75
en fruit dishes	2 00	20 00
hree fruit dishes, glass	2 50	7 50
ne hundred and forty-one fruit jars	10	14 10
en goblets	1 08	80
ne gravy		50
ourteen jellies	04	56
wo jars, stone	50	1 00
ne lemonade standinety mugs		1 50 3 60
ne hundred and twelve plates, breakfast	04 08 <del>1</del>	9 33
wo plates bread	121	25
wo plates, bread ne hundred plates, dinner	$08\frac{1}{8}$	8 34
welve plates meat	50°	6 00
ne hundred and twenty-five plates, pie	084	10 41
wenty plates, soup	08 <del>1</del>	166
our plates, pickleourteen plates, individual butter	35	1 40
ourteen plates, individual butter	03	42
ifty plates, tea		4 16
ifteen pitcherswo pitchers, toilet	1 00	$\begin{array}{c} 15 \ 00 \\ 2 \ 50 \end{array}$
wo prochers, tones	$\begin{array}{c c} 1 & 25 \\ 3 & 00 \end{array}$	١
wo plates, glass	3 50	6 50
wo plates, cream, glass	2 00	4 00
wo plates, cream, stone	- 60	1 20
welve pitchers, syrup	50	6 00
ne pitcher, water		1 00
ne pitcher, chocolate		2 00
ne soup tureen, china		4 50
ne soup tureen, stone		2 75
ne hundred and thirty-five saucersne hundred and twenty-nine sauce dishes	06	8 10 5 16
wo spoon glasses	$\begin{array}{c c} 04 \\ 1 & 12\frac{1}{2} \end{array}$	2 25
hree soup dishes	1 102	30
ive porcelain shades	20	1 00
ne hundred and nine tumblers	08	8 72
wo teapots	40	} 1 00
( )	60	)
en toilet sets	2 50	25 00
orty-eight vegetable dishes	60	28 80
ne washbowlwenty-four wine glasses		$\begin{array}{c} 1 \ 00 \\ 2 \ 50 \end{array}$
Miscellaneous:		2 90
ne donkey and colt		30 00
our desks (office)aggregate		61 00
hree desk rulers	75	2 25
ne document case		30 00
wo dippers	20	40
ight dustpans	15	1 20
Dry goods, etc.:		0.4
even dozen buttonseven and three fourths yards calico	12	84 50
welve and three fourths yards canvas (duck)	$\begin{array}{c c} 06\frac{1}{2} \\ 40 \end{array}$	5 10
ive yards cheviot	11	55
hree hats (worn)		75
hirty yards bleached muslinwenty-eight and one fourth yards unbleached muslin	131	4 05
wenty-eight and one fourth yards unbleached muslin	074	2 12
orty vards sheeting	15	6 00
x spools threadventeen and one fourth yards ticking		28
venteen and one fourth yards ticking	15	2 63
wenty-four yards toweling	101	2 52
ight and one half yards toweling (glass)	091	1 80
our and one half yards wool flannel	40	1 80 400 00
OPTOP STOLDONER TREE-BOOKS DOWER SIPOLENOESE SIPOLE - 4EFFOGSTOL		860 00

## INVENTORY—Continued.

Article.	Cost Price.	Market Value.
Two egg beaters		<b>\$</b> 0 50
Four fire extinguishers		<b>72 00</b>
rurniture, parior set consisting of eleven pieces, folir vases, and	1 . 1	335 75
Four fire extinguishers Furniture, parlor set consisting of eleven pieces, four vases, and three portraits of Governors One American flag One ice cream freezer		15 00
One ice cream freezer		4 50
'I'ntee torks tossting	1 80 30 1	90
One funnel Three hundred and two fruit cans, tin.		25
Three hundred and two fruit cans, tin	5	15 10
Inree grate sets	1.12	3 <b>3</b> 6 <b>50</b>
One grater, large. One grater, nutmeg Two gas lighters. One garden washer for spraying One griddle Gas generator, mixer, regulator, air pump, vault, weights and fixtures for one hundred and fifty light gasoline plantaggregate Six horsesaggregate Twenty-eight bors		25
Two gas lighters	75	1 50
One garden washer for spraying		2 00
One griddle		75
Gas generator, mixer, regulator, air pump, vault, weights and fix-	1 1	1 150 00
six borses		1,150 00 600 00
Twenty-eight hogsaggregate	10 00	280 00
Four halters	1 00	4 00
One harness, double carryall	l	90 00
One harness, double, farm		50 00
Two harnesses, single		50 00
One harness, cartOne hundred and fifty feet hose, water		10 00 30 00
One hundred and fifty feet hose, water Two harrows	20	28 00
One hat stand		15 00
Forty-eight hand grenadesaggregate		62 42
Six inkstands		9 00
Twenty-eight irons, smoothing		19 60
Four jelly molds	70 2 50	2 80 7 50
Seven kettles, chamber	60	4 20
Three kettles coffee agate	1 75	5 25
One kettle, water One kettle, water, large		1 50
One kettle, water, large		3 00
Two lamps, student	5 00	10 00
Four lamps, standEight lamps, ordinary, glass	2 00 40	8 00 3 20
Two lamps, ordinary, glass	40	80
Two lamps, tin Two ladders, fire	12 50	25 00
Three ladders, step	4 00	12 00
Five ladles	15	75
One letter press and table		11 00 11 25
One hundred and fourteen and one helf words lineleum	90	103 05
One lantern square	70	1 50
Four lanterns	1 00	4 00
Three ladders, step Five ladles One letter press and table One lawn mower One hundred and fourteen and one half yards linoleum One lantern, square Four lanterns Two letter boxes Laundry aguinment, viz. No 3 Troy washers two manules extractor	50	1 00
Laundry equipment, viz.: No. 3 Troy washers, two mangles, extractor, starcher, drier, and shafting complete One hundred and forty-two mattresses, hair		1 000 75
starcher, drier, and sharting complete		1,628 75 674 50
Vinety-eight mettress covers knit	4 75 50	49 00
Thirty-one mattress covers, muslin	40	12 40
One hundred and fifteen yards matting, floor	25	28 75
Eighteen mirrors	2 00	36 00
Ninety-eight mattress covers, knit. Thirty-one mattress covers, muslin. One hundred and fifteen yards matting, floor. Eighteen mirrors. Two magic lanterns and views.		50 00
Three mats for doors	100	3 00 5 25
Three milk cans Three measures for fluids	1 75	1 35
One map of California.		5 00
Four mops	1 50	6 00
One map of California Four mops One meat chopper Four hundred and fifty-three napkins		2 00
Four hundred and fifty-three napkins	. 05	22 63
One organette	-	25 00
I'WO OII STOVES	3 75	8 00
	1 00	, ou
Eight oilcloth matsThirty-two yards oilcloth	50	16 00

## Inventory—Continued.

Article.	Cost Price	Market Value.
Cwo piano stools		. \$10 0
One piano cover, rubber		. 4 0
One hundred and seventy-five pillows	- \$1 30	227 5 182 8
Four hundred and fifty-seven pillow cases	- 40 20	39 2
The name! nainting	20	. 25
Thirty pails, fire Swelve pails, wood ix pails, paper	. 50	15 0
welve pails, wood		. 15
ix pails, paper	331	2 0
wo pans, zinc		10
`wo pails, milk	. 50	1 0
wo pails, iron	- 75	1 50
wo pans, bread	60	1 20
wenty pans, milk		6 00
ight pans, disheven pans, sauce, agate	70	5 60
our pans, frying	65 50	4 58 2 00
en nans drinning	40	4 00
en pans, drippinghree pans, cake	35	1 00
liree pans, jelly	. 1 30	1 90
ight nans tin	1 20	1 60
our pans, gem	25	1 00
ne pan, iron		60
hree pots, coffeehree pots, tea	1 25	3 75
hree pots, tea	1 00	3 00
ne pump, brass, force		70 00
ne pump, pulsometer, } equipped	•	339 00
ne pump, pulsometer, )		
wo pokers		30
ne potato masner		25
de borgie pares		35 50
if transverse parer from eq	40	50 22 80
ne apple pareraverage ne plush panel (bracket piece)average ne range	40	22 00
ne prush paner (bracker piece)		163 00
ne railing for niano		21 50
our robes for carriages	4 00	16 00
ne railing for piano our robes for carriages ne rattrap		1 00
ne rack of shelves	- 1	1 00
ne renoussé niece (seal of State)		7 00
ne rotary oven (Vale's) ghteen stoves, coal and wood, with pipe and fixtures aggregate he stove, laundry s screens for stoves, wire and zinc aggregate hur sewing machines aggregate hard-land-land-land-land-land-land-land-lan		540 00
ghteen stoves, coal and wood, with pipe and fixtures aggregate		285 50
ie stove, laundry		<b>30 0</b> 0
screens for stoves, wire and zincaggregate		65 00
ur sewing machinesaggregate		125 00
ve nundred and twenty sheets, single	40	208 00
urty-nine sheets, double	60	23 40
te nunured and forty spreads	1 25	175 00
ur spreads, called	75	3 00 45 00
venty-five straw ticks	1 25	50 00
	8 00	
wo safes, wire, for meats $\left\{\right.$	10.00	18 00
ne settee, wood wo surcingles		3 0
wo surcingles	. 75	1 5
ne scales, platform	.	.\ 14 0
ne scales, platform ne scales, balance	-	5 0
ne scales, apothecary	-	8 (
wo safes, iron		. 72
wo sprinklers, lawn	1 50	3
ne spider		-
our strainers	\ 25	1
ne meat saw		
ne sieve		
ne large sieve		1
lna agata staamar		
ne agate steamer		
ne agate steamer Our skimmers wo shears	25	1

#### INVENTORY—Continued.

Article.	Cost Price.	Market Value.
Eight screens for windows	\$0 75	<b>\$</b> 6 00
One hundred and four stools	. 40	41 60
Four skirt boards	. 200	8 00
One official seal		8 00 2 50
One stand for sprinkler.		1 50
Supplies:		
Ten pounds dried apples	.] 06 ]	60
Fifteen pounds baking powder	391	5 93
Twelve pounds bacon Thirteen pounds dried beef	15	1 80
Thirteen pounds dried beef Ten pounds white beans	14 02 <del>1</del>	1 82 23 75 12 2 55
Thirty nounds nee heans	021	75
Thirty pounds pea beans Three boxes shoe blacking	04	12
Three packages stove blacking	85	2 55
Three wooden buckets. Two paper buckets	25	75
Two paper buckets	35	70
Four brooms	25	1 00
Eight whisk brooms Three fourths box bathbrick	13	1 04 71
Two wall brushes	95 1 50	3 00
One stove brush	1 30	25
Two scrub brushes	20	40
Two shoe brushes	20	40
Two shoe brushes Five pounds corn meal	03	15
Ten gallons coal oil	20	2 00
Tren gallons coal file Two boxes candles Three papers chocolate Thirty pounds codfish Fifty pounds coffee One hundred and twenty pounds crackers	2 50	5 00
Three papers chocolate	25	75 2 32
Fifty pounds codish	07 <u>3</u> 23	11 50
One hundred and twenty nounds arealizes	05	6 00
I'wo cans corn	00	25
Six pounds cocoanut	29	1 74
Pwelve papers cornstarch	08	96
Four cans condensed milk	25	1 00
Four cans condensed milk Three hundred and fifty pounds copperas Twenty-five pounds cheese	02 <del>§</del>	9 68 3 50
I wenty-nye pounds cheese	14	3 50 30 00
Drugs and medicines estimated One demijohn		30 00 75
Five barrels flour	4 50	22 50
I wenty pounds farina	041	šö
Twelve papers gelatine	101	1 80
Five pounds ginger	19	95
Five pounds ginger. Two hundred gallons gasoline	$26\frac{1}{2}$	53 00
l'wenty-nine pounds ham	$15\frac{1}{2}$	4 50 70
One hatchet	10.50	950 00
eventy-six tons hay Effteen pounds indigo	12 50 35	5 25
'hirty pounds lard	101	5 25 3 15
line bottles lemon extract De case lye, American concentrated	502	4 50
One case lye, American concentrated		4 00
wo pounds mace	85	1 70
Three kits mackerel	2 25	6 75 1 80
en pounds mustard	18	1 80 12 50
ne barrel molasses ne half great gross matches		4 00
wo mon holders	15	
ne half pound nutinegs	68	34
ne half pound nutinegs en cans oysters	15	1 50
ne on can		40
oron callons oil maint	60	4 20
ive gallons oil, lubricating	50	2 50
wo posties oil, salad	50	1 00 4 88
eventy-rive pourtus paint, white lead	$06\frac{1}{2}$	1 00
ne quart naint, green		25
vive gallons oil, lubricating.  we bottles oil, salad eventy-five pounds paint, white lead ne gallon paint, red ne quart paint, green we gallons paint, black, gasoline. ne half gallon paint, boiler lineteen pounds putty	1 00	2 00
ne half gallon paint, boiler	1 00	50
ineteen pounds putty	03	57

#### Inventory—Continued.

. ARTICLE.	Cost Price.	Market Value.	
Three paint brushes	\$0 35	\$1 20 2 10	
Six pounds rubber packing Two hundred and eighty-eight feet pipe, steam, one-inch Forty-five feet pipe, steam, three eighths-inch	07	20 16 2 25	
Fourteen feet pipe, water, two-inch	13	1 82 1 00	
Tourteen feet pipe, water, two-inch.  Ten feet pipe, water, one and one fourth-inch.  Eleven packages pearline.  Eighteen bottles peppersauce.  Ten gallons pickles  Ten pounds prunes  Ten packages paper, toilet.  Twenty pounds rice  One half box raigins	15 20	1 65 3 60	
Ten pounds prupes	30 08	3 00 80	
Ten packages paper, toilet.	15 05½	1 50 1 10	
	- UU 1	1 00	
Fifteen pounds sago	06	90 2 30	
Two salmon, smoked Two hundred pounds starch, laundry	1 40	$\begin{array}{ccc} 2 & 80 \\ 10 & 00 \end{array}$	
Two hundred and fifty-seven pounds sugar, granulated One hundred and forty-eight pounds sugar, brown	07 06 <del>1</del>	17 99 9 25	
Tweuty-five pounds sugar, pulverized	07½	1 88 40	
One half box soap, laundry		2 25 5 00	
One bag sait, rock	018	1 70 5 25	
One hundred and fifty sacks	013 05	7 50	
Two hundred pounds starch, laundry. Two hundred and fifty-seven pounds sugar, granulated One hundred and forty-eight pounds sugar, brown. Tweuty-five pounds sugar, pulverized Four cakes sapolio One half box soap, laundry. One box soap, Purity One box soap, Purity One bag salt, rock. Three hundred pounds sal soda. One hundred and fifty sacks. Forty-five pounds tea Twenty-five pounds tapioca. Three tongues. Three tongues. Ten bottles vanilla extract.	27½ 06	12 38 1 50	
Three tongues Ten bottles vanilla extract One barrel vinegar	35	2 62 3 50	
One barrel vinegarSchool supplies:		10 00	
Two Arithmetics	50	1 00 2 50	
Two bells  Eight brooms (small)  Two books on calisthenics  One box beads (colored)  One lot blocks  One pair bones  One pair bones  One checker board  Five sets cups and balls	10	80 1 00	
One box beads (colored)		30 25	
One bass viol		21 00	
One checker board.		20 75	
Five sets cups and ballsOne chart (Bancroft's)		1 00 50	
Three charts, alphabetical		1 00 20	
One cornet	4 00	20 00 100 00	
I wenty desks (single)	2 50	50 00 10 00	
Power than drawing books	10	1 30 12 90	
One checker board Five sets cups and balls One chart (Bancroft's) Three charts, alphabetical One pair clappers One cornet I wenty-five desks (double) I wenty desks (single). I wenty desks (single). I wo desks, teacher's I hirteen drawing books Forty-three dumbbells, wood. I wo pairs dumbbells, iron One box dominoes One drum Eight form boards. One flute. I wo Geographies.	50 50	1 00	
One drum		12 00	
Eight form boards One flute	50	4 00 7 00	
Two Geographies	75	50 18 00	
One lot glazed paper		50 50	
Jne flute  Iwo Geographies  Iwenty-four gospel hymn books  Dne lot glazed paper  Dne set games  Dne guitar and box  Dne globe  Eleven maps, Camp's  Three maps, United States, dissected  Dight music books		25 00 3 00	
Twenty-eight ink wells	05	1 40	
Three maps, United States, dissected	2 00	22 00 2 25	
Ine map rack Eight music books		12 00 6 00	
Gight music books	40 50	3 60 3 50	

#### INVENTORY—Continued.

Auticle.	Cost Price.	Market Value.
Seventeen music sheets	\$0 20 1 00	\$3 40 12 00
One Maypole and ribbons Four puzzles and games Three peg boards	30	4 00 1 20 30
Twelve penholders	20	20 60
One dozen pads, blotting One half dozen pads, blackboard Eighty-four Readers One box rings, kindergarten	20	10 60 16 80
One box rings, kindergarten Eight rubber erasers One lot sewing cards		50 20 1 50
One lot scrapbooks	30	2 00 9 00
Eighteen slates, small Two sets soltaire Four spools silk, embroidery	25	3 60 50 80
One sand table Six tables, kindergarten One set tov money	1 50	5:00 9:00 25
One set toy money One set tenpins. One trombone Twelve writing books.	06	50 15 00 72
One lot weaving mats		75 75
Twelve wands One lot words, alphabet Four onnces worsted		1 20 25 60
Four onnces worsted Nine tables, dining room, ninety feet Two tables, extension, twelve feet. Seven tables, kitchen	1 00	90 00 24 00 28 00
(In a table library	1	20 00 16 00 20 00
Two tables, laundry, sixteen feet Two tables, sewing, twenty feet Twenty tables, stand One table, school Three tables, school	1 25	25 00 3 00
Two tables, workshop	6 00 4 00	18 00 8 00 60 00
Twelve tin plates One toaster One tub, portable bath	05	60 40 4 00
One table cover (fancy)		2 50 3 00 1 00
One tray Three hundred and seventy-seven towels. Eighteen tin cups	06 05	22 62 90
Seven tin dippers Tools, carpenter's: Two axes	08 1 25	56 2 50
One set brace and bits Nine bits, extension One bucksaw	25	3 00 2 25 1 00
One crowbar Four chisels, cold Five chisels	20	1 75 80 2 80
One chisel, nailTwo drawing knives		45 90
Two diamonds, glaziers' One divider One footbar		10 00 30 40
Two falles.  Due grindstone	35	30 4 00 70
Two gauges. One gluepot Two hamniers	50	2 00 1 00 2 25
Three hatchets One nail punch	75	10

#### INVENTORY—Continued.

ARTICLE.	Cost Price.	Market Value.	
One oilstone		\$1.0	
One oil feeder		40	
Four planes One pruning knife One putty knife	\$0.75	3 00 30	
One pruning knile		1	
One priers		2	
One rivet set		1 0	
I'wo squares		80	
Five screwdrivers		75	
Iwo try squares	40	80 40	
One set squareOne spokeshave		40	
One spirit level		4 5	
One sledge		1 00	
Pive saws		8 50	
One pair compasses		. 7	
)ne saw, 4-foot		4 5	
One saw, buck One saw, keyhole		1 50 50	
one saw, keynole		5	
)ne vise		2 0	
)ne washer cutter		10	
Tools, machine:	1		
ne anvil		17 50 73	
One belt punch		1 2	
ne clamp, fron one set dies and stock		12 5	
one forge		24 0	
even files		7	
wo hammers hand		20	
ne set hand drills, brace		3 6	
eventeen keys, blank		5 4	
one oil can		3	
ne oil cup'wo nine cutters	******	5 0	
wo pipe cutters De pair pipe tongs wo pairs pincers		3 5	
wo pairs pincers		1 5	
ne ninking iron		4	
ne pair shears	<b></b> -	9.6	
wo soldering ironsne saw, for iron		$\begin{smallmatrix}3&0\\1&2\end{smallmatrix}$	
wo pairs tongs, for gas		1 5	
ne pair tongs, chain		7 0	
ne pair tongs, chain hree pairs tongs, extension	3 50	10 5	
ne tap, die, and stock		16 0	
ne trowel		$\begin{array}{c} 7 \\ 12 \ 5 \end{array}$	
ne vise, largene vise, small	******	12 5	
wo wrenches, extension	2 00	$\frac{1}{4}$ $\overset{\circ}{0}$	
wo wrenches, monkey	1 75	3 5	
wo wrenches, small		7	
wo wrenches, screw	1 50	3 0	
wo wrenches, hydrant	1 50	3 0	
Tools, general: wo brush brooms	50	1 0	
wo brushes, horse	50	1 0	
ne tube cleaner		Ť	
hree hay forks		2 2	
even hoes	50	3 5	
ne hoe, boiler		10 5	
wo plows		18 5 1 5	
wo pairs pruning shears		1 2	
ne pickne planting bar		$\frac{1}{2}\frac{2}{0}$	
hree rakes	50	ī š	
ive shovels	1 00	5 0	
ne spade		1 2	
ne scythe		1 2	
ne scythe, bush		1 2	

#### INVENTORY-Continued.

Article.	Cost Price.	Market Value.	
Two scrapers One syringe for spraying One sickle		\$1.0	
One syringe for spraying		1 5	
One sickle		5	
Two wheelbarrows		8.5	
One watering pot.		ĬŎ	
Tools renouses.	]	- *	
One sheet copper		. 17	
Six clamps		1 5	
Six clamps		15	
		2	
One chisel			
One set carving, wood		4.0	
Six mallets	\$0 25	1 5	
Eight oak blocks One soldering casket One scroll saw	60	4.8	
One soldering casket		25	
One scroll saw		3 0	
One rule		2	
One repoussé set.		40	
One pair shears		7.	
One screwdriver		2	
One mirror bracket		7.	
One tin box		2	
One varnishing brush		1	
Twelve vases	75	90	
One washboard		5	
One wringer		4 5	
One winger	00.00	80 0	
Four wardrobes, walnut	20 00	3 4	
One wagonette		500 0	
One wagon, farm One wagon, spring, double seat		125 0	
One wagon, spring, double seat		75 0	
Two buggies One wagon jack		150 0	
One wagon jack		5 0	
Eight washstands, wood	4 00	32 0	
One washstand, iron	.	15	
Ten waiters	. 50	50	
Two woodboxes	4 00	80	
Ten cords firewood		47 5	
Aggregate		\$18,724 7	

SANTA CLARA, CALIFORNIA, July 31, 1889.

To the Board of Trustees of the California Home for the Care and Training of Feeble-Minded Children:

The undersigned, your Auditing and Finance Committee, respectfully report that they have carefully examined the accounts and books of the Superintendent, and all and every transaction done and acted by him for the fiscal year ending June 30, 1889; and that we find the same correct, and the balances agreeing with those in the hands of the Treasurer and in his own hands at present. All agreeably to the reports hereto annexed and made part hereof.

We further certify that the books and accounts are well and admirably kept, and creditable to the officers of the institution, the Superintendent, Dr. Osborne, and the Clerk, Mr. Knapp.

Respectfully submitted.

(Signed:)

MRS. KATHERINE B. LATHROP,

President.

WILLIAM HARNEY. CHARLES A. MURDOCK.

## SIXTH ANNUAL REPORT

OF THE

## BOARD OF TRUSTEES OF THE CALIFORNIA HOME

FOR

# The Care and Training of Feeble-Minded Children.

FOR THE YEAR 1890.



SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

### REPORT.

CALIFORNIA HOME FOR THE
CARE AND TRAINING OF FEEBLE-MINDED CHILDREN,
SANTA CLARA, October 1, 1890.

To his Excellency R. W. WATERMAN, Governor of the State of California:
GOVERNOR: In compliance with the laws of the State of California,
we respectfully herewith submit to you our annual report as Trustees of
of said institution.

We beg to refer you to the report of our Superintendent, Dr. A. E. Osborne, which is hereto annexed and made part hereof, for a detailed statement, which discloses all the requisite and necessary information required by statute governing in such matters, for your information and consideration.

The number of inmates in the institution on the thirtieth day of June, 1890, being the end of the fiscal year, was one hundred and twenty-five, divided as follows: Boys, sixty-nine; girls, fifty-six.

The total number of applications for admission amounts to several

hundred. (See Superintendent's report.)

Again we beg leave to state that, owing to the crowded condition of the capacity of the institution in its present situation, we find it impossible to admit any more of the large number, as shown above, committed and applying to us for shelter, till we are relieved by the early completion of the new buildings on the recently acquired site near Glen Ellen, Sonoma County. When these buildings are erected and ready for occupancy, we will then be enabled to overcome the pressing claims on us to admit a large number of those already committed to us, and as much as possible meet the constant applications for admission from all parts of our State.

The sanitary condition of the institution during the year has been good—free from epidemic, and no illness, only such as is always incident

to feeble children.

The great and most absorbing interest manifested by the Board of Trustees since the filing with you of our last report centers in the new site, recently acquired by purchase, near Glen Ellen, Sonoma County; a description, and all matters pertaining to it, we have in our last report laid before you. Since the filing of that report we have acquired the property, which embraces, as we have formerly stated, some one thousand six hundred and sixty acres of land, and for the sum of \$50,000, and its title having been duly examined, was passed upon as good and valid by the proper authority, the Attorney-General of our State, and possession given to us in the early part of last January. We desire to state that the sum of \$1,000 was generously donated to the Board of Trustees, for the use and benefit of the children, by Guy E. Grosse and J. E. Peters, the gentlemen from whom the property was purchased.

We regret to state we found this newly acquired property in a bad state of preservation. The place had been allowed to run down very

much in the past, particularly the orchards and vineyards, which were in such an uncultivated condition that, if allowed to remain so much longer, would render the same perishable, and of not much value for any future profit therefrom. This, together with the dilapidated condition of the fences surrounding the land, rendered it almost useless for that purpose. The dwelling house on the place, and the outhouses, all needed renovation for habitation. All those matters attracted our attention and consideration to place the same in as good condition as our means would permit, believing that in due time a source of revenue will be derived from the orchards and vineyards, and the farm generally, which will accrue to the benefit of the State. We had the orchards and vineyards thoroughly cultivated, and the trees and vines properly pruned, the dwelling house renovated, repaired, and furnished for habitation, all the outhouses put in as good order as possible, and the fences repaired as far as we could do so at present, and many other matters necessary to be done in and about the place. All these improvements entailed an expense of \$8,344 24, and the detailed items of disbursements for the same will be found in the report of the Superintendent, hereto annexed, to which we respectfully refer you.

We were long in deciding upon the form and details for the first building to be erected, delayed by our inclination to obtain all the necessary information and observations of other buildings suitable for an institution of this character. We secured plans and photographs of other and kindred institutions from various places in the United States, to aid and guide us in our judgment in adopting the best plan possible for this, our primitive institution on this coast, so as to meet all the wants and comforts, as well as all the requirements necessary for the inmates who are to permanently reside there in the future, and not going any further in the size and extent of the building, only as the limited means at our disposal would permit or allow, so that hereafter the full and complete buildings necessary and required (to meet the wants of the large number who are seeking admission to the same) can be allied to it without

any impediments in the way for that purpose.

The plans and specifications for this new building were prepared by our architects, Messrs. Copeland & Pierce, and after a thorough inspection and consideration of the same on our part, met with our approval, as well as the approval of the State Board created for that duty. The proposals for bids, agreeably to the plans and specifications adopted, were advertised by us, as by law required, and the award or contract given to Mr. Andrew McElroy, of San Francisco, who was the lowest responsible bidder. Mr. McElroy immediately filed his bond and entered into contract with us to perform the erection and completion of the building. This latter also met the approval of the State authorities.

The contractor very shortly after commenced work on the place, excavating for foundations and the putting of the concrete foundations required, and the work of erecting the building now in progress, under the constant inspection of M. F. Redmond, a competent and highly recommended builder employed by us for that purpose, who, together with our architects, oversees that the contract is faithfully and well complied with, in all manner of materials used therein, and as our laws required in such matters. Our President and members of the Board of Trustees also watch the progress of the work from time to time. We are in

hopes that by the early part of the coming year to be able to find the building completed, so as to enable us to remove the children thither from their present location, for permanent residence.

We are also about to erect a much needed and necessary building as an adjunct to this main building, to be used and occupied by all cases of an epileptic character. We find from experience that such a habitation, separate and apart from the main building containing the milder form of cases, is not only requisite, but indispensable for the good and welfare of the institution. We are also, as far as our means will permit, about erecting a reservoir for the reception of water; the latter we have on the place in abundance, and of good quality, and to be conducted from a source of springs on the premises by pipes to the reservoir, giving to us sufficient fall to answer all purposes; and, further, to have a proper system of sewerage created, and such other requisites that may be found necessary and essential in and about the place, in as economical and workmanlike manner as the limited means at our disposal will permit. It will be seen that the total revenue to the State derived from our farm during the year amounts to the sum of \$3,138 40; less expenditures for labor, live stock, feeding thereof, plowing and seeding, \$1,520 11. It is expected that at our newly acquired property near Glen Ellen to be able to derive an income therefrom, which will be a source of revenue to the State, bearing in mind that at first considerable outlay is expected to place the property in a condition to derive a profit therefrom.

We beg leave to call your Excellency's attention to the appropriation allowed us by the last Legislature for the purposes of purchasing a new site and the erection of suitable buildings thereon. The sum appropriated was \$170,000, from which the sum of \$50,000 was expended in the purchase of the new site, and the balance—\$120,000—to be expended on the buildings. From this latter sum, some \$5,000 were expended in architect's salaries, attorney's fees, traveling expenses in search of a location, advertising, etc., leaving the sum of \$115,000 wherewith to defray expenses for the buildings now in course of erection, and from which other expenses are to be met, other than those for the buildings proper. With such a limited sum at our disposal we were only enabled to proceed to build but a portion of the contemplated buildings we required, agreeably to our plans adopted. These consist of laundry, bakery, kitchen, and dining-room building, together with a building adjacent for epileptic cases, capable only of accommodating from two hundred to three hundred inmates, necessary officers and attendants. We have at present one hundred and fifty inmates, officers, and attendants, and two hundred and thirty applications or commitments for admission on file. These, together with the additional applications constantly made to us from all parts of our State, and more applications that in the future we may reasonably expect, clearly shows beyond a doubt that the present buildings in course of erection will be very limited in capacity to accommodate or meet the wants of such a large number seeking admission therein. We therefore submit, under these existing facts, that the new buildings under our original plans should be erected as soon as possible, and which will be capable to meet the wants and accommodate all who seek admission. To complete the buildings proper, agreeably to the plans adopted, and in addition to those now in course of erection, we need what is known as an administration building, with two wings thereto—one for

boys and one for girls, and a boiler and engine room. The estimated cost of such, from a careful estimate submitted to us by our architects, will amount to about \$300,000. This will include the cost of radiators and heaters, as well as gas fixtures complete, with the additional sum of \$15,000 to furnish and supply the same for habitation. We deem the fences surrounding the property of no use, entirely worn out, and incapable of resisting an encroachment from cattle, and believe with an appropriation of \$15,000 we can surround the same (nearly 1,700 acres) with a good, substantial fence, also with inner cross-fences required, together with improving this valuable land and premises, which it needs very much, and thereby render it capable to become a source of revenue to the State, arising to a considerable extent from the labor of its inmates, believing that many of such who are physically able will be taught to labor on the farm, and in such other pursuits that will have a tendency to promote their usefulness and sanitary condition.

We desire to express to your Excellency our sincere thanks for the many acts of kindness, as well as the voluntary aid rendered us from time to time by you, and we believe you will find it a consolation, as well as a pride, in the future, that you had, in connection with your co-laborers in such work (ourselves), assisted to your utmost one of the most deserving of all charities, and aided in founding and building a shelter forever for those poor unfortunate and helpless of our human

family.

All of which we respectfully submit.

KATHERINE B. LATHROP.
A. P. OVERTON.
GEO. W. GIBBS.
JULIA M. JUDAH.
WILLIAM HARNEY.

### ANNUAL REPORT OF THE SUPERINTENDENT

OF THE

# CALIFORNIA HOME FOR THE CARE AND TRAINING OF FEEBLE-MINDED CHILDREN

TO THE

BOARD OF TRUSTEES, OCTOBER 1, 1890.

#### OFFICERS OF THE INSTITUTION.

#### DIRECTORIAL.

#### BOARD OF TRUSTEES.

Mrs. Katherine B. Lathrop, President Occidental Hotel, San Francisc Mrs. Julia M. Judah San Mate Col. Wm. Harney 535 Market Street, San Francisc Gro. W. Gibbs 35 Fremont Street, San Francisc Hon. A. P. Overton Santa Ros	0. 0. 0.
TREASURER.	
Hon. B. D. MurphyPresident Commercial and Savings Bank, San Joseph	ιé.
ATTORNEY,	
Hon. H. C. Dibble	0.
SECRETARY.	
Dr. A. E. OsborneSanta Clar	a.
<del></del>	
MANAGERIAL.	
A. E. Osborne, M.D., Ph.D.         Superintender           Mrs. Margaret Paxton Osborne         Matro           Stephen H. Knapp         Cler           Miss Emma Willard Peck         Kindergartne           Alexander L. Kropp         Teacher of music, et           Miss Anna E. Jones         Supervisore           Mrs. Jennie Wilson         Night Attendar           Miss Ada E. Carnes         Attendar           Miss Lucy Murdock         Attendar           Miss Jessie Watson         Attendar           Miss Mary Pearson         Attendar           Miss L. Brey         Night Attendar           Mes. M. Bundensen         Attendar           Nills Bundensen         Attendar           Nills Bundensen         Attendar           Attendar         Attendar           Attendar         Attendar           Attendar         Attendar           Attendar         Attendar           Attendar         Attendar	k. er. ec. es. et. et. et. et. et. et.

#### AUXILIARY STAFF IN CHARGE AT GELSTON.

MISS MAGGIE ROBINSON Baker.
MISS BRIDGET CREEDON . Cook.
MRS, ELIZABETH ROBERTS Laundress.
JOHN T. SHARPE Engineer.
CARL L. CARLSON Janitor.
GEORGE PALMER. Farmer.

Mrs. A. J.	Downing		Housekeeper.
ROBERT P.	. Hill	Manager Agricultural	and Horticultural Department.

### REPORT.

Santa Clara, Cal., October 1, 1890.

To the Board of Trustees of the California Home for the Care and Training of Feeble-Minded Children:

MESDAMES AND SIRS: In accordance with the requirements of the law, and of your Board, I have the honor to submit herewith the following as and for my annual report of the operations of this institution for the fiscal year ending June 30, 1890, together with certain addenda brought down to October 1, 1890, which last are properly noted as they occur:

TABLE 1-MOVEMENT OF POPULATION FOR INMATES.

	Males.	Females.	Total.
Census of July 1, 1889Admissions, July 1, 1889, to June 30, 1890	66 6	48 10	114 16
Total for year	72	58	130
Discharged	2 1	2 8	4 9
Total to be deducted	3	10	13
Census of July 1, 1890	69 2	48 8	117 10
TotalDied	71 1	56	127 1
Present population (October 1, 1890)	70	56	126

#### Of this last number there are domiciled—

At Santa Clara—Males	63 53	
Total		116
At new site. Sonoma County-Males	6	
At new site, Sonoma County—MalesFemales	8	
Total		9
At home on leave—Males		1
Total		126

Innates Discharged.—Two males and two females were discharged during the year; of these, a few words are not amiss:

E. B., male, had been under our care two years and six months. When admitted he knew little or nothing of the ordinary school work, owing to his self-appreciation of his own defection, coupled with a sensitive disposition, that prevented him from obtaining any benefit from public or even private school instruction. His age was eight and a half years

at admission; he was in good physical health; was willing to learn, but bashful and diffident, and easily discouraged. He had never spoken, and could make only futile attempts at articulation. His memory appeared good and his perceptive faculties fair. On examination it was found that he possessed a certain malformation of the mouth and palatine arch that interposed an anatomical barrier to clear enunciation and precluded perfect speech. Great pains were taken, however, with his instruction, and particular stress was laid upon those lines of training that seemed to us best calculated to call out the fullest expressions of his mental forces, and at the same time increase his reliance upon and confidence in self-efforts. Under the painstaking drill of our teachers and attendants the work succeeded—slowly at first, then more rapidly, and at last proceeded far beyond the expectations of most of us, who realized how he was handicapped. At this stage of his development his family took him from the Home and placed him in the schools of their city, where he has since distinguished himself as a diligent and capable student, of average grade. We were very sorry to part with him (believing that still greater results might be accomplished with him), notwithstanding the fact that we realized he would be to the people of the State a forcible, tangible, positive evidence of the value of the educational benefits of the Home, and prove by living testimony, that cannot be attacked, what can be done with children of his class. His recovered speech, alone, should forever silence the stale rantings of "doubting Thomases," who have opposed the claims of the feeble-minded, and belittled the very efforts that saved this boy. The results of our investigations into his progress since leaving the Home justifies us in declaring the improvement to be permanent. The chasm of imbecility has been spanned, and he has passed over to the bright land of an intellectual promise. In this instance, there arises strongly in our mind the oft-quoted and veritably prophetic utterance of the late Jas. B. Richards, in his remarkable story of the rescue of the idiot boy "Sylvanus": "If we can redeem one," I said to Dr. Howe, "we will redeem them all over the country. We will open the doors so wide that every State shall pass an Act to found an institution for these unfortunates; and every intelligent being shall feel that it is a privilege to enter into this great work!" The following record of this case I find upon the pages of our "Record of School Progress and Training." The initials affixed are those of the teachers under whose care he was placed:

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

November 1, 1887 (eleven months after admission)—"Is always attentive and diligent.

In writing is always careful to follow copy, and has just written his first letter. Is doing nicely in kindergarten, and making rapid progress."—M. L. P.

December 1, 1887—"Reading in the First Reader. Cannot speak the words very distinctly, but is improving. Spells words of three and four letters. Is very faithful with

his work, and ready to attempt anything required of him. Is now learning the multiplication table—writes the table of two's perfectly."—M. L. P.

January 1, 1888—"Deportment good. Has made perceptible improvement in reading. Articulates more distinctly, can add simple numbers readily, but has not yet learned to 'carry.' In articulation has learned the sound of 'ch,' can give the correct sound of the letter u, and has learned other vowel sounds. In writing is also doing well."—E. W. P.

Erbeiter 1888—"Continues doing well in all classes.

February, 1888—"Continues doing well in all classes. During the past month has made good progress in numeration. In articulation has learned all the vowel sounds and is trying to put the parts of words together. Has mastered the letter 'h,' and, in fact, can give the sounds of nearly all the letters of the alphabet."—E. W. P.
"Is doing well in calisthenics. Has learned to use the chisel with both hands in wood carving, and is improving as rapidly as can be expected."—A. B. W.
September, 1888, to April, 1889—"Was in my class in arithmetic from September to January, was working in addition and doing nicely. In January came to me in reeding

uary; was working in addition and doing nicely. In January came to me in reading and in writing. Doing well."—A. E. J.

July, 1888, to April, 1889--" Was in my First Reader class until January, 1889. Up to that time made excellent progress. During same period was also in my kindergarten classes, and accomplished a great deal of good work. Can sew elaborate patterns, fold paper accurately and neatly; can follow almost any pattern in weaving. Has made good progress in articulation; is always ready to repeat a sound as many times as required day after day until he gets it. Can repeat sentences of eight or nine words without assistance, and makes an effort to talk with me in class. In arithmetic he endeavors to get 100 every day, which is given him if he adds the long examples without a single mistake. He is now about ready to take up subtraction. Is neat, systematic, attentive, and industrious in all school work."—E. W. Peck.

We close this remarkably satisfactory record with a copy of a letter written by him in July last to the teacher whose conscientious efforts were most responsible for his development. We wish we could reproduce the handwriting, which is quite good, legible, and characteristic, and we omit only the address:

-, Cal., July 13, 1890.

DEAR MISS PECK: I thought I would write to you and ask how all of the boys, girls, and teachers are out to the Home, as I have not had a chance to go out as the horse is out to pasture and I have no way to go.
I am out on my vacation now. I was promoted into the sixth grade, and I am getting

along very well at school. Sometimes I beat the drum for the boys to march in by.

It has been very warm here for a few days.

I have a good deal of work to do at home, as I help the girls about the house. I guess I will close, as I have nothing more to say this time, and will be pleased to hear from any of the teachers and children. Give my love to all. E---- B----. Yours as ever,

The other discharge from our Boys' Department was that of F-S-, aged nineteen years. This was a high grade case, of peculiar nervous endowment, whose previous life had been characterized chiefly by erratic and passionate exhibitions of eccentricities. There had been an almost continuous history of chorea, which was quite marked on admission. He was a boy of highly honorable disposition and intentions, anxious to please and do right, but with so weak a self-restraining power within himself, that, without the sympathy and support of a stronger person, it was the easiest thing in the world for him to go wrong. He remained with us a year, continuing under physical, as well as mental treatment, and then left us to enter a school in the southern part of the State, preparatory to entering business. His subsequent course has been lost sight of, but we believe it to have continued satisfactory, as promised, or we would, in all probability, have been advised to the con-

The history of the discharges from the Girls' Department are not so

The first, A——, aged ten and one half years, was a confirmed epileptic of aggravated condition, whose retention in the Home had been greatly beneficial but not curative. She was with us nearly two years. During that time her disease had been placed under fair control, so that the spasms became less severe, and for awhile, less frequent. Towards the latter part of the time they consisted of temporary loss of consciousness, without falling or the exhibition of any contortion of face or body. Her epileptic record affords an interesting study, the consideration of which, however, may not be of special import in this connection. We introduce the following figures to show the irregular course of her disease.

Her papers stated, on admission, that she was subject to spasms at irregular intervals, but frequently to the extent of four or five a day. She was admitted in August, 1887, and her treatment was begun at once, with the following results:

September, 1887	Four spasms.
October 1887	Two spasms.
November, 1887, to July, 1888, a period of eight months	
July, 1888	Thirty spasms,
August, 1888	
September, 1888	
October, 1888	Nine spasms.
November, 1888	
December, 1888	
January, 1889	
February, 1889	
March, 1889	
April, 1889	
May, 1889	
June, 1889	Two spasms.
July, 1889	

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

Her former irascible temper improved almost to the point of total disappearance. She kept fairly well along with her studies, and had her physique kept pace with her mental improvement, she would have become a marked case. As it was, her family considered her sufficiently improved to be kept at home, and we have heard of no unfavorable report since her discharge.

The last discharge was that of S—— G——, aged twenty-seven years, an imbecile girl of lower grade, who was with us a year only. The utter neglect of any previous training, such as was suitable to her condition, made it a hard matter for us to do much for her in the short time she was with us. She had long passed the age at which school duties promised much reformation, and there were left only a few industrial pursuits suitable to her condition of mind and body. Subject to hallucinations; with a garrulous disposition, and possessed of sufficient intelligence to artfully formulate and shrewdly execute mischievous schemes, she was manifestly a dangerous person for any community outside of an institution, and a continued source of irritation inside of one. From circumstances over which we had no control, she was retained at home after the expiration of a certain leave of absence granted her. As a host of applicants were clamoring at our doors for admission, we could not, in manifest justice to these, retain her place, and her bed was given in consequence to another, even more in need of our care. That the career of S— G— since her discharge has been an unfortunate one, is evidenced by the fact that she was, a couple of months back, arrested, brought before Commissioners in Lunacy, adjudged insane (?), and formally committed to the State Asylum at Napa. The fact, incidentally, points to one of two conditions, both of which are of vital consequence to us as specialists in this particular field. Either she retrograded so rapidly after having been sustained a year by our methods that her refention by her family was little short of criminal negligence, or else Commissioners in Lunacy still fail to discriminate between the actually insane and the feeble-minded only.

TABLE 2-DEATHS, JULY 1, 1889, TO OCTOBER 1, 1890.

CAUSES.	Males.	Females.	Total.
Epilepsy Acute mania Meningitis Sequelæ, following measles Progressive (general) atrophy Totals		2 1 2 2 1 8	2 1 2 3 2 2

An Epidemic of Measles.—In the month of April last there appeared the first epidemic that the institution has known. Considering the number of our family, the tendency of their inherited or acquired weaknesses towards all diseases peculiar to the massing of human beings, and the risks of communication through our daily contact with the outside world, the long immunity of the Home from even the ordinary diseases of childhood is really remarkable. It has been to all of us. a source of self-congratulation. During the past winter and spring measles existed throughout the valley and in the neighboring towns, and precautions were taken to guard against its introduction in the institution. The disease finally gained an entrance by being communicated by an attendant in the Girls' Department, who, a few days after her employment, was taken down with a hybrid form of the disease. She was at once isolated, and all precautions possible were adopted to prevent the spread of the affection. Our efforts were fruitless, however—one after another were taken down until nearly half our number were in bed. Lacking hospital facilities, the cases were treated in the general dormitories. The treatment in general was purely a sustaining one, with special regard to complications. The frequent unctions over the whole body of warm and pure olive oil proved particularly soothing, and resulted in marked benefit to the patient. The deaths noted resulted from secondary causes in children of very feeble constitutions, who succumbed to the strain much as they would have succumbed to any unusual and exhausting tax upon their frail vitality. The usual cases of bronchial irritation and inflamed eyes supervened, with more or less persistency.

TABLE 3-Movement and Sex of Population of Inmates, by Counties, etc., July 1, 1888, to October 1, 1890.

	July 1,	1, Admitted, Dis-		Dia-	October 1,	Sex—October 1, 1890.	
Counties.	1888.	Admitted.	charged.	Died.	1890,	Males.	Females.
Alameda	12	5	1	2	14	11	3
Butte	1	0	0	0	1	0	1
Calaveras	0	1	0	0	1	1	0
Contra Costa	1	0	0	Ō	1	1	0
El Dorado	0	1	0	9	1	0	1
Fresno Humboldt	1	0	0	0	1	1	0
Humboldt	1	1	0	0	2	1	1
Lake	1	0	0	0	1	1	0
Los Angeles	6	2	0	1	7	4	3
Marin	1	0	O I	0	1 1	0	1
Monterey	1	ŏ	0	0	2	0	1 2 1
Napa Nevada	$\bar{2}$	2	0	ŏ	2	0	2
Discon	ő	2	1	0	1	1	, ,
Placer	Ö	4	ō	0	4	1	0 2
San Bernardino	Ÿ	2	ŏ	Ŏ	4	4	Ó
San Benito	2	í	ŏ	ŏ	2	2	ŏ
San Diego	ត់	1 4	2	ŏ	2	l î	ľi
San Francisco	37	23	. 4	3	53	23	30
San Joaquin		1 70	ō	ŏ	ľ	lő	l ~~i
San Mateo	2	Ĭŏ	ŏ	ŏ		l i	Ī
Santa Barbara	$\frac{2}{1}$	ľ	ŏ	ŏ	2 2	2	Ô
Santa Clara		· 2	ĺž		6	4	$ar{0}$
Santa Cruz		3	l ī	2 2	i	l ī	ō
Shasta	Ī	l ŏ	ī	Ō	Ō	Ī	
Sonoma	0	2	0	0	2	1	1
Stanislaus	i	0	Ó	1	0	0	0
Sutter	1	0	0	0	1	1	Ó
Solano	1	0	1	0	0	0	0 0 1
Tehama	1	0	1	0	0	0	0
Tulare	1	0	0	0	1	0	
Ventura	2	2	0	0	4	3	1
Yolo	3	0	0	0	3	2	1
State at large Hawaiian Islands	1	0	0	0	1	0	1
Hawaiian Islands	1	0	0	0	1	1	0
Totals	93	58	14	11	126	70	. 56

From the above it will be seen that the bay counties of Sonoma, Contra Costa, Alameda, Santa Clara, San Mateo, Marin, and San Francisco supply over 62 per cent of the population, and San Francisco alone over 42 per cent. San Francisco and Alameda Counties are represented by over 53 per cent of the inmates. Our applications now on file would vary these figures but little if they were included, but would place Los Angeles and the southern counties third in the list.

#### TABLE 4-THE CAUSES OF FEEBLE-MINDEDNESS.

So far as we have been able to ascertain from the incomplete histories obtainable in most cases, the causation of feeble-mindedness may be tabulated as follows:

Known or Presumed Cause.	Males.	Females.	Total.
Accidents and diseases of infancy: Convulsions Cholera infantum Falls Measles Partial drowning	1	1 1 2 2 2 1	7 2 2 4 1 1
Fartial drowning Scarlet fever Sickness, severe and prolonged Congenital Epilepsy. Epilepsy, with paralysis Epilepsy, following meningitis Epilepsy, following whooping-cough Epilepsy, from use of tobacco and masturbation Panalysis weneral	27 7 1	2 22 8 1 1	49 15 2 1
Panama fever Paralysis, general Paralysis from fall Paralysis, infantile Relating to pregnancy: Accident to mother Administration of chloroform to mother during der	1	ī	1 1 2 1 1
operation  Maternal impressions Injuries received at birth. Physical and mental strain of mother Premature birth (paralysis) Shout to mother (grief etc.)	1 1 1	1 1 2 2	1 1 1 2 1 3 4
Shock to mother (fright)  Relating to parental conditions: Alcoholism of parents Feeble-minded father Illness of parent at conception Insanity of parents Kinship of parents Syphilis of parents Relating to brain lesions:	1 2 1	1 1	1 1 1 2 2 2
Inflammation of brain Hydrocephalus Meningitis (from accident) Meningitis (basilar) Shock to nervous system through retarded pubescence Sunstroke	• 1	1 1 1	2 2 1 1 1 1
Totals	70	56	126

In the above table the term "Congenital" is used to denote all those causes, more or less obscure, operating at or about the time of birth, as well as those immediately preceding it. The matter of heredity plays an important part in causation, and we regret we cannot designate in a clearer way the effect of parental vices, and the violation of laws—moral as well as hygienic—that a just God will surely hold accountable for many of these dwarfed and crippled bodies and blighted minds. It is a significant fact that over 16 per cent of all under our care (including idiots) are epileptic. This does not include, however, those who of right belong to the epileptoid family of diseases. Were these to be included the percentage would be much larger. Over 19 per cent are epileptic and paralytic. Over 38 per cent are congenital. Over 16 per cent resulted from the accidents and diseases incident to infancy. Over 11

per cent were caused by troubles experienced during the pregnant state—over one half of them representing shocks and frights. What an unwritten history of mother's woes these statistics disclose! Over 7 per cent from depraved conditions of the mind and body of the parents previous to conception, represents but a part of the unfortunates—were the truth fully known—who have been brought into the world sinless and yet with the livid brand of sin upon them. Moralists and reformers can here find much material for lay sermons.

TABLE 5-AGES OF INMATES.

AGES.	Males.	Females.	Total.
Between 5 and 10 years Between 10 and 15 years Between 15 and 20 years Between 20 and 25 years Between 25 and 30 years Over 30 years	22 26 7 1	3 10 16 13 5 9	15 32 42 20 6 11
Totals	70	56	126

TABLE 6-Nativity of Inmates and Total Engoliment from December 10, 1885, to October 1, 1890.

NATIVITY.	Males.	Females.	Total.
Alabama	2		2
Australia		1	1
California	70	47	117
Colorado		2	<b>2</b>
Denmark		1	1
England	2		2
Germany		2	2
Hawaiian Islands	1		1
Iowa	$\overline{2}$	1	3
Illinois	3	ī	ă
Italy	2	- 1	$ar{f 2}$
Kansas	1	4	5
Massachusetts	•	2	2
Michigan		1 1	ĩ
Missouri	1	3	1
Mexico	;	ا ا	1
	3		3
Nebraska	2		3
Nevada		2	4
New York		4	7
New Jersey	·	2	2
Nova Scotia	1		1
Norway		1	1
Ohio		3	4
Pennsylvania		2	. 3
Rhode Island		1	1
Scotland	. 1		1
Switzerland		1.	1
Unknown		. 1	1
Totals	97	82	179

TABLE 7--ORDINARY SCHOOL AND INDUSTRIAL DETAILS.

DETAILS, OCTOBER 1, 1890.	Males.	Females.	Total.
On farm	4		4
On garden and grounds	1		1
Absent on leave	1		1
In laundry	1	4	5
In school	<b></b>	1	
With cook			1
In infirmary			7
In dormitories	12	8	20
Chamber work	1	Š	3
Sewing classes		15	15
Fancy work (see Table 8).		1	
With janitor	4	1	4
Dining-rooms		8	Ř
Damie Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling Tooling			
Totals	31	38	69
	l	]	١ <u>.                                    </u>

The above table must not be taken as indicating the only number able to work, according to the occupations indicated. Our purpose has been to train all the inmates, so far as they may be physically and mentally able, to some light, suitable, pleasing, and, at the same time, practical work, in order to stimulate them to, and to prepare them for, greater duties and responsibilities. The general working detail varies from day to day in numbers, and no one day's roster can truly reflect the correct industrial ability of our children. The following illustration will indicate more clearly the practical side of our training. Inmates have been trained to fill, and now do satisfactorily fill, the following positions at the saving of salaries indicated:

Gardening, etc., formerly filled by paid labor	\$25 00 per month.
Cook's helper, formerly filled by paid labor	20 00 per month.
Chamber work	20 00 per month.
Diniug-room care, etc., formerly filled by paid labor	50 00 per month.
Laundry work	60 00 per month.
General house work, assistance	50 00 per month.
Baker's assistance, etc,	15 00 per month.
Value of boys' assistance at Gelston	50 00 per month.
Value of girls' assistance at Gelston	50 00 per month.
G	

\$340 00 per month.

We believe these figures below rather than over the mark, and have purposely placed them low to offset any possible criticism as to the character of the quality of assistance rendered, in comparison with paid labor. To many, the statement that the value of the work of our children is over \$4,000 per year, based upon current rates for paid service. may appear as a surprising affirmation. To those who are, however, familiar with the work, and believe as we do, that under proper conditions a part of our children may be trained to very largely support the. other part, there will be occasioned no surprise, but a pure gratification that our Home has made, thus early in its existence, such valuable progress towards the practical realization of some of our assertions. Let it be further borne in mind that the above estimate does not include the value of the work of our children in the sewing classes, fancy and ornamental work, and the assistance of a few advanced in the schoolroom, without which it would be necessary for us to employ paid service for the work done.

#### TABLE 8-School Roster.

The following table will be of interest, as exhibiting the studies pursued, and the number in each class:

STUDIES.	Boys.	Girls.	Total.
Alphabet	12	7	19
Arithmetic-Numbers	18	13	31
Addition to fractions	9	9	18
Fractions	i		1
Articulation—First efforts	2	2	4
Pronouncing in one syllable	2		.2
Short sentences	3	1	4
Short sentences Art and Decorative Work—Crocheting		5 -	- 5
Drawing	6	. 7	13
Etching		14	14
Paper folding	3	4	7
Hemstitching		4	4
General needlework		15	15
Embroidery		3 {	3
Fayal (drawn) work		2	2
Kindergarten-Stick laying	)		
Bean laying Peg boards	18	8	26
Peg boards	10	0	
Tablets	j	i 1	
Sewing and weaving. Lessons in color and form.	20	9	29
Lessons in color and form	17	12	29
Games	19	. 5	24
Ornamental	1	2	- E
Penmanship—First lessons	14	7	21
Spencerian copy, 1 to 7	8	7	15
Reading—First Reader	. 7	6	18
Second Decides		2	
Third and Fourth Readers	8	11	18
Third and Fourth Readers Evening School—Miscellaneous (mainly for children unable to attend during the day because of other work) Classes in music, yocal and instrumental:	į.		<b>,</b>
ble to attend during the day because of other work)	16	22	38
Classes in music, vocal and instrumental:	j	1	1
Drass Dand—Piccolo		.  1	
Cornets—1st and 2d B flat	1	2	
Trombones—alto, 1st and 2d	1	1	1 3
Trombones-tenor, 1st and 2d	2		1
Tubas—1st and 2d	2		1
Cymbals	1		1
Drummers	2	1	1
Lyre	ī		
Brass band—Second Grade—Clarionet		1	1
Cornets		1	
Orchestra—Cornet		.] 1	
Flute, etc.		. 1	
Cello		. 1	
Violins	1	2	
Piano		. 1	1
Clarionet			1
Trombone	1		
Xylophone, bells, etc.	1		
Drum	1		
Double bass	1		
Vocal music	3	9	1 1
Calisthenics—Classes	15	7	2
Repoussé	6		
Wood carving	) š		
Scroll saw	3 6		
	6	8	1
Geography, Elementary			1
Geography, Elementary History, United States	5	8	
Geography, Elementary	5 5	7	15

#### TABLE 9-Donations-July 1, 1889, to June 30, 1890.

#### July, 1889.

A. R. Woodams, Santa Clara: Two boxes of peaches. B. Hicks, Santa Clara: Twelve fans. Miss Peck, Institution: Large picture book.

Pennsylvania Training School for Feeble-Minded Children, Elwyn, Pa.: Twenty-four pillow shams, with worked designs. Mrs. Katherine B. Lathrop, President: Large assortment of neckties for boys, and

beads for girls. M. Morgenthau, San Francisco: One box (gross) white toilet soap.

Jos. Sanders, Superintendent California Industrial Home for the Adult Blind: Lot of brooms and brushes.

Mrs. A. McDonald, San José: One dozen fancy picture cards, one fancy cardboard cross, one package transfer pictures, two linen collars, and one package of beads.

Miss Peck, Institution: One white skirt (for C. H.).

Mr. A. R. Woodams, Santa Clara: One box of peaches, two boxes prunes, one box egg

plums, and one box choice plums.

The Misses Pierce, Santa Clara: Large quantity (wagon load) of pears.

#### September, 1889.

The Misses Pierce, Santa Clara: Two wagon loads of pears. Mr. A. R. Woodams, Santa Clara: One box table grapes. Miss L. Brey, Santa Clara: One sacque.

Mrs. K. B. Lathrop, President: Four large, framed pictures.

#### October, 1889.

Mrs. H. M. Jessup, San Francisco: Nine linen collars.

Mr. A. R. Woodams, Santa Clara: Two boxes grapes.
Mr. Albert Harris, Santa Clara: One box quinces and several boxes apples.
Pennsylvania Training School for Feeble-Minded Children, Elwyn, Pa.: Six hammocks.

#### November, 1889.

Mrs. H. L. Dodge, San Francisco: Quantity of boys' clothing, and large box of shells and curios from Mexico.

Mr. A. R. Woodams, Santa Clara: One box dried apricots.

Mrs. E. A. Yard, Santa Clara: Several boxes of table grapes. Mrs. K. B. Lathrop, President: Fifty pounds of candy.

#### December, 1889.

Special, and applied to Christmas Fund. (See Table 12.)

#### January, 1890.

Mr. S. C. Higgins, Santa Cruz: Girls' clothing. Mr. W. C. Badleau, Monrovia: Girls' clothing. Mr. S. H. Knapp, Institution: Boys' clothing. Mr. W. G. Brown, San Francisco: Package of pictures.

#### February, 1890.

Mrs. A. L. Brewer, San Mateo: Two bolts of ribbon for girls.
Mrs. K. B. Lathrop, President: One linen tablecover.
Mrs. S. D. Baker, Virginia City, Nevada: Half dozen assorted remnants of baby ribbon, twenty-four bundles zephyr, six paper embroidery patterns, one white apron, one perforated motto, fifty-four skeins of silk, one package silk scraps, two pieces silver board, one and a half yards mohair cloth, ten pieces canvas, one outlined splasher, five pattern

Mrs. — Campbell, Sonoma City: Quantity of children's clothing. Mrs. K. B. Lathrop, President: Eight vases (for Gelston).

#### April, 1890.

Mrs. S. D. Baker, Virginia City, Nevada: One package of yarn, one white apron.

Mrs. George F. Tayfor, San Francisco: Quantity of girls' clothing.
Mrs. George Hamilton, Oakland: Quantity of girls' clothing.
Mrs. K. B. Lathrop, President: Eight vases, two decanters (for Gelston).

#### May, 1890.

Mrs. A. J. Snodgrass, Ventura: Quantity cards, toys, and picture books.
Miss Carrie Warburton, Santa Clara: Quantity flowers and toys.
Mrs. A. M. Moore, San Francisco: Several unbound volumes of "Harper's Magazine," and illustrated papers.

Mrs. K. B. Lathrop, President: Forty yards outing flannel for girls' dresses, two packages tooth powder, one sewing machine, one tidy, paper and papering one room (for

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

June, 1890.

Loyal Legion, Santa Clara: Picture cards and flowers. Mrs. A. M. Moore, San Francisco: One box of books. Mrs. K. B. Lathrop, President: Fifty pounds of candy.

TABLE 10-EXHIBIT OF WORK DONE BY SEAMSTRESS AND SEWING CLASSES FOR YEAR Ending June 30, 1890.

ARTICLES.	Number
prons	6
asque	١ ،
ed pads	2
ed spreads	ĺ
ed ticks	
llankets (hemmed)	1
louses	ļ
ureau cover	
amisoles	i
hemises	
llothes bags	
ombination suits	1 :
urtains	i
)oylies	
Orawers (pairs)	
resses	
Imbroidered altar cloths.	1
lannel sacques	1
lannel skirts	1
Iandkerchief case	·}
an haldon	1
ron holders fattresses (renovated, and restitched, and tied)	1
factoreases (renovateu, and restitched, and fied)	·
Mattresses (stitched) Napkins (cotton flannel)	1
(apkins (cotton nather)	1 1
Napkins (linen, etc.)	1
Vightgowns	·
Vightshirts	
Outlining	-1
illow	
illow cases	.  :
Plain hemming	-
hams outlined	-i
heets	_1 :
tand cover	_l .
uits (boys' ordinary) uits (boys' "Pinafore") able cloths	_
uits (bovs' "Pinafore")	]
able cloths	1
able scarf	-
ea towels	-
owels.	
Vaists	
	- [
Vindow shades	•
Total	. 1,

Besides the above, there were one hundred and thirty-four days devoted to patching, mending, and general repairs—an average of over eleven days each month. The table does not, further, include the large quantity of fancy work, knitting, sewing, embroidery, outlining, etc., done for the holiday season, and for which the months of November and December were largely taken. This exhibit was especially meritorious both as to variety and quantity, and served practically to demonstrate in a pleasing way the handicraft of the children in those lines of work.

The present instruction in hand and machine sewing is designed to

be preparatory to the formation of a class of seamstresses and tailors, who, hereafter, under the direction of a competent forewoman, shall do the mending and the making for the whole institution. The utilization of inmates of this class for these and other pursuits in the institution should not be contrasted with the labor in the same line of regular artisans. In the latter instance it is the result of competition in the struggle for existence, in which the best skill commands the best pay. In the former case it is the utilization of what otherwise would be not only waste elements of society, but also consuming, destructive elements, without any compensation for the destruction or consumption. In this light, therefore, any practical results attained must necessarily be considered as profit—profit to mind and soul, as well as from hands.

TABLE 11-PER DIEM AVERAGES OF COST OF MAINTENANCE, ETC., FISCAL YEAR.

Month.	Total Expendi- ture.	Per Diem Expense.	Per Diem Average of Inmates.	Per Diem Cost Per Inmate.	Per Diem Average of Population, Includes Staff.	
1889—July August September October November December 1890—January February March April May June Averages	\$3,087 04 3,605 81 2,822 42 2,764 03 2,936 22 2,415 87 2,300 50 2,470 70 1,790 64 1,989 56 1,942 98 2,248 44 \$2,531 18	\$99 55 116 31 94 08 89 11 97 67 77 93 74 21 88 24 57 76 66 31 62 67 74 94	112 117 117 118 119 118 120 120 120 119 115 115	\$0 88 99 80 75 82 66 61 73 48 57 54 64	142 152 148 150 150 149 151 145 143 141 143	\$0 70 63 59 65 52 49 58 40 46 43 52 \$0 56

A comparison of the above table with our statistics for 1887 and 1888 will show that our per capita expense has been greatly reduced. The figures above include certain items of extraordinary expense that ought not to be included in computation of maintenance, but are instead items of equipment, furnishing, and building. As will be seen elsewhere among the financial tables, the principal items of extraordinary expense were:

Work on cleaning cesspools	\$100 00
Purchase of stock	200 00
Insurance	146 94
Sinking well at laundry Erection and equipage of bakery	258 63
Erection and equipage of bakery	_ 1.012 49
Other extraordinary expenses	450 00
Amounting in all to	\$2 168 06

Deducting this amount, we have, on comparison, the result as shown below:

YEAR.	Average Monthly Expense.	Average per Diem Cost.	Per Diem Average of Inmates.	Per Diem Cost per Inmate.	Average Whole Populat'n.	Average Cost per Whole. Populat'n.
1887–1888 1889–1890 (in full) 1889–1890 (extra expense ex- cepted)	\$2,128 25 2,531 18 2,350 51	\$69 75 83 23 76 43	87 117 117	\$0 80 70 65	109 147 147	\$0 63 56 52

In considering the per capita expense of this institution, in comparison with other institutions, the educational feature of the work and its consequent additional cost, over care that is purely custodial, must not be lost sight of, but duly computed. A larger staff must be maintained than would be required for simply custodial purposes, and in order that the children may be properly drilled, schooled, and trained to useful habits, the salaries for these additions to the general staff must be sufficient to properly recompense for the said tact, experience, and quality of ability furnished. Besides, the general armamentarium of a school books, maps, apparatus, furniture, etc., must be provided at a certain yearly outlay. It was never designed, even from the beginning of the work, that our specialty should be classed or managed on lines parallel to the simple custody of the insane, for instance, nor has it been ever expected by the leaders in the work that it could be carried on quite as cheaply per capita.

#### TABLE 12-Contributions (other than cash) to Christmas Fund-1889.

Goodyear Rubber Co., San Francisco: Five rattles, thirty-one balls, two rings, two bird images (all rubber).

Maurice O'Brien, San José: One box (fifty pounds) candy.

Messrs. Will & Finck, San Francisco: Two large picture books, one small picture book, two toy animals, one dissected (toy card) house, two toy bureaus for dolls, one box agate marbles, four assorted horns, popgun, two musical (toy) instruments, two whirling jacks, one pair bones, three wooden toys, one toy village, one box animals and birds, one

large horn, two large dolls, two kaleidoscopes.

Messrs. G. Verdier & Co. (City of Paris), San Francisco: Eight pairs colored stockings (ladies'), one dozen assorted handkerchiefs, eight dress patterns, assorted fabrics.

Mrs. Rosa Valente, San Francisco (special gift): One tin boat.

Sheaved & Sheaved & Con Francisco (102 deep 2 pound elegations of times)

Sherwood & Sherwood, San Francisco: One dozen 2-pound glass jars of jams. George Beaver, Santa Clara: One bushel walnuts and one bag of dried fruit. William H. Haydock, San Francisco: Eleven books (picture), six rubber balls.

George A. Hamilton, Oakland: One medium sized doll, one small doll, one fancy basket, three handkerchiefs, bag of candy (special gift); two books (picture), three small

dolls (institution gift).

Mrs. George F. Page, Oakland: One tin horse and rider, one tin wagon, two tin trumpets, six picture cards, two harmonicas, two Noah's arks, one chime, one ball tosser (musical), one sailor boy (doll), one dress (doll).

neal), one sailor boy (doll), one dress (doll).

Boys and Girls' Aid Society, San Francisco (special gift): Five handkerchiefs, one book.

W. A. Tyson, Woodland (special gift): One Chatterbox (book), one game.

Miss Mattie Manning (special): Three collars, one tie, two shirts, one hat.

Miss Nannie Gregg, Lakeport (special gift): One cup and two pairs of stockings.

George W. James, San José: One package of nuts, one paper of candies.

Mrs. P. Geary, San Francisco: One box fine cakes and candies.

M. Morgarthay: San Francisco: One dozen hand astable one dozen skinning ropes.

M. Morganthau, San Francisco: One dozen hand-satchels, one dozen skipping ropes, one box toilet soap, two dozen sets knives, forks, and spoons, one dozen large dolls, one dozen No. 3 tool chests, two dozen sets building blocks.

Levi Strauss & Co., San Francisco: One box apples, one box oranges, one box nuts,

one box candy.

Christian Borger, Campo Seco (special gift): One suit of clothes.

James Kerr, San Jacinto (special gift): One pair stockings.

Samuel Folks, San Bernardino (special gift): One box writing paper, one box candy, one necktie, one silk handkerchief, one box pencils and pens, one box paints.

A. Vander Naillen, San Francisco (special gift): One pair of shoes, one jersey, one cor-

set, one red dress skirt, two pairs wool stockings, one game (fish pond), one yard ribbon, one small portfolio, five kindergarten cards, one ornament with pencil, pen, and ruler.

Lottie and Rina Vander Naillen, San Francisco: One dressed doll, one woolly sheep, four

horns, one portfolio, two shell ornaments, one string of beads, three toy watches, seven

A. Carminatta, Sonoma City: One cake, one bag assorted nuts, two boxes (ten-pound) candy, one box apples and pears, one deck playing cards.

Sarah and Isaac Moss, San Francisco (special gift): One box nuts and candy, one

breastpin (gold), one yard pink ribbon, one white apron, three collars, seven handker-Mrs. F. G. Weidemuller, San Francisco: Two packages (special gifts), one necktie, one book, one plush box, with brush, comb, and glass, one box candy.

Mr. and Mrs. B. V. Weeks, Pescadero (special gift): Handkerchief.

S. Foster & Co., San Francisco: One bag of nuts.

G. E. Hooper, Antioch, Cal. (special gift): Small box almonds, bag of candies.

Unknown: Twenty bottles fancy cologne for girls.

Agnes Kirschner, San Francisco (special gift): One fancy dress, one white apron, one pair slippers, one pair shoes (worn), two pair kid gloves (worn), one pair stockings, two books, and four yards ribbon for institution.

Samuel W. Springer, San Francisco (special gift): One pair shoes, three handkerchiefs,

two yards ribbon, one yard ruching, one box candy. Mrs. N. D. Fuller, San Francisco (special gift): One book.

Mrs. Bil Tinklepaugh, San Bernardino, Cal.: One box candy.
Mrs. George Hyde, San Francisco (special gift): One basket of candy, two neckties.
Mrs. Camilo Martin, San Francisco (special gift): One pair cuff buttons (gold), one collar button (gold), one pair sleeve buttons.
B. Katschinski & Co., San Francisco: Twelve autograph albums, one basket of candy,

one bag of cakes.

Mrs. Elihu Wright, Santa Cruz (special gift): One harmonica, one paper of candies, two handkerchiefs, one map, one album of picture cards, one card.

Mrs. A. McDonald, San José: One gun and one drum (special), five banner pictures,

five large advertising pictures, one small ditto, one plaque.

Miss Compton and Mrs. McDonald, San José: Two Christmas stockings, one game, eight Testaments, eight books, one dozen autograph albums, one checker board, eleven illustrated story books.

Mrs. N. T. Field, San Francisco (special gift): One parrot (toy), one bull, one set parlor

Rev. Mr. Easton, Berkeley: Thirty-nine cards.
Farmers' Union, San José: One box nuts.
Mrs. W. J. Haskell, Oakland (special gift): One box assorted cakes, candy, and fruit. Mrs. A. L. Thompson, San Francisco (special gift): One package picture cards, two

aprons, scrap book, and package candy

Mrs. Sarah E. Dorr, Stockton (special gift): One picture book.
Unknown: Christmas number 'London Graphic,' three chromo lithographs.
J. Cereghino, Santa Clara: Six bunches celery, one box apples.

Mrs. B. D. Miller, Sacramento (special gift): One woolen dress, one picture, one picture card, one linen picture book, one paper picture book.

Mrs. S. J. Peterson, San Pedro (special gift): One large cake.

Mrs. W. A. Sale, San Pedro (special gift): One scent bag, one Puss in Boots, one autograph album, one doll's bonnet, three pairs doll's stockings, one bag candy. For institution: Eleven autograph albums, five linen picture books.

Miss Gertrude Clough, Los Angeles: One Christmas card, one initial handkerchief, two small handkerchiefs, one box candy, nuts, and fruit.

Mrs. P. Grace, Madera (special gift): Three pair of stockings, four handkerchiefs, two wool shirts, and small box of candy.

Mrs. E. T. Linn, Ventura (special gift): One scent bag, two handkerchiefs, two pair of

stockings, one pair of shoes.

Mrs. W. J. Webster, Hydesville (special gift): One yard of ribbon, one Christmas card, one half dozen white handkerchiefs, one white apron.

one half dozen white handkerchiefs, one white apron.

Mrs. Laura A. Kennedy, Oakland: Eight large picture books.

Mrs. John Church, Hueneme (special gift): One pair of shoes, one jersey suit.

Mrs. Martha Bridges, San José (special gift): One pair of stockings, six handkerchiefs.

Mrs. C. Waldeyer, Oroville (special gift): Twenty-five oranges, one package of maple
sugar, one package of candy, one package of almonds, one package of fancy cakes, one
rubber ball, one package of colored beads.

Mrs. W. C. Curtis, San Bernardino, (special gift): One dozen oranges, one package of
dried figs and nuts, box of candy, one bag of raisins, three pair of woolen socks, necktie,
and suspenders.

and suspenders.

Lillie Kelsey, Maynards (special gift): Six Christmas cards. Mrs. William Alley, San Francisco (special gift): One knit wool skirt, one pair of shoes, one piece of ribbon.

A. R. Woodams, Santa Clara: One chicken, one box of dried apricots.

Mrs. T. A. Harms, Pleasanton (special gift): One gold ring, one pair of shoes, two night dresses, two handkerchiefs, one bologne sausage, cash, 50 cents.

Oliver Eldridge, San Francisco: Three large chromos, Christmas number "Illustrated London News," one box of oranges.

Frank J. Maguire, Santa Barbara (special gift): One half dozen handkerchiefs, one

third dozen stockings, one large agate, one tin cup, four personal gifts.

Miss Lillie Pardon, Monterey (special gift): Three knit skirts, one knit cape, two books.

Mrs. Mary Giles, San Francisco (special gift): Two handkerchiefs, one skirt, two collars, one tie, one toy trombone, one package of candy.

Mrs. Maria Peterson, Napa City (special gift): One shoulder shawl, two handkerchiefs,

one white apron.
Mrs. W. H. Haydock, San Francisco (special gift): One Christmas card, one pair knit slippers, two pair stockings.

Adolph Hirch and wife, San Francisco: One box mixed crackers.

Mrs. Cochran, San Francisco (special gift): One book.

Mrs. Eichbaum, San Francisco (special gift): One book, one bag candy.

Jos. Hopkins, San Francisco (special gift): Three coats, two pair pants, two vests.

Mrs. Ann Busteed, San Francisco (special gift): One (Japanese) box candies, one pair socks, one suit of clothes, two handkerchiefs, one book,

Mrs. Geo. Taylor, San Francisco (special gift): Two pair black stockings, two ribbon bows, one lace bow, two handkerchiefs, one pin cushion, one box candies, one Japanese box, one knife, one pencil, two Christmas cards, one package advertising cards, one dozen miniature calendars, court plaster books.
Unknown, San Francisco: One box oranges.

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

W. S. Kreutzman, San Francisco (special gift): Two night dresses, one worsted dress, three pair stockings, three handkerchiefs, two aprons, two yards velvet ribbon, three yards ribbon, four buttons, one bottle perfumery, twenty-seven picture cards, two Christmas cards, three advertising books, two Duke's shadow albums, six Japanese boxes candy, writing paper, envelopes, fancy cards, two lead pencils.

Mrs. Kate T. Haines, Oakland (special gift): One pair reins, one iron horse and wagon.

Jones' Bazaar, Oakland: One dozen harmonicas, one dozen toy watches, one half dozen

M. M. Everson, Oakland: One dozen pocket knives.

M. M. Everson, Oakland: One dozen pocket knives.
J. Young, Oakland: One pair boys' shoes.
M. H. Coffee, Oakland: Two handkerchiefs, one pair buttons.
Mr. H. Bankhead, Oakland: One handkerchief, two pair stockings, one doll.
L. Stien, Oakland: One half dozen pocket books.
Murphys, 853 Broadway, Oakland: One pair child's shoes.
H. Alexander, Oakland: One pair of shoes.
E. P. Taylor, Oakland: Ten dolls, two paint boxes, three rattles, two horns, five books.
Mrs. J. O'Kane, San Francisco: One box apples, nuts, and candies.
Antone Fatjo, Santa Clara: One box fancy crackers.
Mrs. N. D. Fuller, San Francisco (special gift): Two check waists, one handkerchief, one harmonica, one trumpet. one harmonica, one trumpet.

Thos. J. Hannan, Los Angeles, California (special gift): Two ties, two silk handker-

R. H. Hatch, Half Moon Bay (special gift): One white dress. Jos. A. Hoffman, San Francisco: One box Christmas cards.

M. F. Redmond, San Francisco (special gift): One walking turtle, two balls, primer, box of blocks, cravat, Christmas cards.

box of blocks, cravat, Christmas cards.

Herman Werner, San Francisco (special gift): One box candies.

Jas. Doleyse & Co., per G. J. Fuchs, San Francisco: Two pairs stockings, one handkerchief, one bag nuts, two bags raisins, one bag candy, four picture books (special gift), one Christmas number "Puck," 1887, one Christmas number "Sporting News," 1887.

Mrs. M. Perry, Monterey (special gift): Two yards ribbon, one white apron, two bordered handkerchiefs, one pair stockings, one small fruit cake, one bag candy.

J. Cleary, San Francisco (special gift): One dressed doll, one bag candy.

Christian Borger, Campo Seco (special gift): Two flannel undervests, three flannel overshirts, one pair cotton flannel drawers, one pair reins, several bottles jam, one lot of cakes, four large cakes. one jar preserves, twenty oranges.

Mr. and Mrs. J. Harris, San Francisco (special gift): One waist, one pair shoes, one pair stockings, candy, nuts, and cakes.

pair stockings, candy, nuts, and cakes.

A. J. Snodgrass, Ventura (special gift): One purse, one harmonica, one spinning top,

rubber ball, one pair slippers, one package candy, one toy pistol.

Nathan, Dohrman & Co., San Francisco: Forty-five Christmas tree ornaments, twenty-four mugs, eight fancy cards, one picture on glass, one small picture, one small fancy

dish, twelve small cups and saucers, nine ornaments.

Hugh Hamilton, Oakland: One Christmas cake, one package jumbles, one package Hugh Hamitton, cartaints one christmas care, one package jumbles, one package sugar cakes, three packages mixed cakes, two large tin horns, four medium tin horns, four dolls, two humming tops, three jumping jacks, one plaque, three tin toys, one box paints, one book (special).

John Hoerl and family, Stockton: One pair shoes, two pair woolen stockings, ribbon, one fancy apron, one bottle cologne, two handkerchiefs (special gift), one small bag candy, and one small bag nuts (institution).

Mrs. Katherine B. Lathrop, San Francisco (special gift): Twenty-four silver bracelets.

Mrs. [Sabella Lones Fullerton (special gift): Two and one half vards ribbon, one book.

Mrs. Isabella Jones, Fullerton (special gift): Two and one half yards ribbon, one book.

Messrs. E. H. Guppy & Son, San José: One express wagon, one baby carriage, two wheelbarrows, six wire bracket easels, one metal easel, three picture holders, eight boxes paints, four china mugs, five (agate) marbles, three Chinese baskets, two workboxes (furnished), eight School Companions, one school basket, four school bags (macrefna), three sets Hill's alphabet blocks, four picture cards, three Mother Goose melodies, photograph, with easel; eight autograph albums, two small photograph albums, one medium photograph album, one writing portfolio, five Christmas books, eighteen large Christmas cards, eight small Christmas cards (perforated), two small Christmas books,

Christmas cards, eight small Christmas cards (perforated), two small Christmas books, two workboxes (furnished).

L. Zinnamon, Los Angeles (special gift): One blue shawl and \$2 50 in coin, two packages picture cards, water color sketches.

W. A. Tyson, Woodland (special gift): One Christmas Day book, four lace collars, two yards ribbon, one game ("old man").

Dr. D. D. Logan, Santa Barbara (special gift): One Christmas card, one suit of clothes, care book.

Charley Lewis, San José: One toy parrot.

Mr. Clarence Haydock, San José: Ten bags marbles, seventeen picture cards.

Mrs. A. E. Wells, San Francisco (special gift): Three white aprons, one box candy.

seven handkerchiefs, one plush workbox, scissors, etc., one Christmas card, one dozen bonbons.

Rev. R. Bentley, Oakland (special gift): One writing desk, one tin toy, one cabinet

rev. K. Bendey, Oakland (special girl): One writing desk, one till toy, one caomer photograph, one pin cushion, one writing tablet.

Philip Deiter, San Francisco (special girl): One bustle, two cans jelly, two boxes hairpins, four chemises, two white skirts, seven envelopes, six sheets writing paper.

Messrs. O. A. Hale & Co., San José: Two and one third dozen bottles cologne, two baskets (one bottle each) cologne, two tumblers (one bottle each) cologne, two fancy pitchers (one bottle each) cologne, two fancy procedure bottles cologne. porcelain bottles cologne.

Mrs. Hannah L. Dodge, San Francisco: Two fruit pies, six mince pies, six pie pans, seven oranges, quantity of crackers.

Mr. Norman Spencer, Oakland (special gift): Two white shirts, five handkerchiefs, one

Mrs. C. Aigeltinger, San Francisco (special gift): One book.
Mr. W. G. Brown, San Francisco: One roll of pictures.

Note.—The foregoing gifts, noted as "special gift," were to individual inmates, and were distributed as directed.

#### TABLE 13-Cash Donations Received on Account of Christmas Fund, Decem-BER 25, 1889.

C F Man Can Ind	<b>\$</b> 5 00
C. E. Flagg, San José	
T. L. Barker, San Francisco	5 00
T. L. Barker, San Francisco Geo. P. Morrow, San Francisco Messrs, Mack & Co., San Francisco Lewis Gerstle, San Francisco George T. Taylor, San Francisco Mrs. B. F. Pitts, Hueneme, Cal. Mrs. H. M. Jessup, San Francisco Mrs. Albert Page, San Benito John T. Biorden Valleio	2 50
Messrs, Mack & Co., San Francisco	2 00
Lewis Gerstle, San Francisco	25 00
George T. Taylor, San Francisco	5 00
Mrs. B. F. Pitts. Hueneme. Cal.	5 00
Mrs. H. M. Jessup, San Francisco	5 00
Mrs Albert Page San Renito	1 00
John T. Riorden, Vallejo	2 50
m II Williams Con Brancisco	20 00
O. H. Williams, San Francisco.	
C. H. Kingsley, San Francisco	5 00
Chas. Kingsley, San Francisco	10 00
T. H. Williams, San Francisco. C. H. Kingsley, San Francisco. Chas. Kingsley, San Francisco. J. A. Filmore, San Francisco.	10 00
1. H. Goodman, San Francisco	10 00
Geo. C. Jenkins, Santa Clara Mrs. Ariel Lathrop, San Francisco	2 00
Mrs. Ariel Lathrop. San Francisco	20 00
Archbishop Biordan, San Francisco	20 00
Archbishop Riordan, San Francisco Philip Dieter, San Francisco	3 00
I R O'Rrian Santa Clara	5 00
J. B. O'Brien, Santa Clara Rev. A. L. Kellogg, Santa Clara Mrs. A. Ellis, San Francisco	1 00
Mey. A. D. Renogg, Santa Claia	5 00
Mrs. A. Ellis, San Francisco	
W. J. Curtis, San Bernardino Mrs. H. L. Dodge, San Francisco	5 00
Mrs. H. L. Dodge, San Francisco	5 00
C. A. Merkle, San José M. F. Redmond, San Francisco	5 00
M. F. Redmond, San Francisco	· 10 00
A. J. Snodgrass, Ventura	2 50
A. J. Snodgrass, Ventura.  S. Oberdeener, Santa Clara.  R. H. Hatch, Half Moon Bay W. C. Badeau, Monrovia A. Anspacher, San Francisco. Messrs. Newman & Levison, San Francisco. Wallace Land, Clements Weinstock, Lubin & Co., Sacramento. Richard Burnett, San Francisco. W. A. Tyson, Woodland. Henry Claussen Point Reves	10 00
R. H. Hatch, Half Moon Bay	3 00
W. C. Badeau Monrovia	1 00
A Angrapher San Francisco	5 00
Mosers Nouman & Lavison Son Francisco	5 00
Wessis, Newhall & Devision, San Figheisco.	1 00
Wanace Land, Olements	
weinstock, Ludin & Co., Sacramento	10 00
Richard Burnett, San Francisco	1 00
W. A. Tyson, Woodland	5 00
Henry Claussen, Point Reyes	10 00
Henry Claussen, Point Reyes C. T. Ryland, San José Robert Menzell, Santa Clara T. J. Maguire, Santa Barbara.	<b>500</b> .
Robert Menzell, Santa Clara	5 00
T. J. Maguire, Santa Barbara	5 00
Mrs. M. Brown, San Francisco	5 00
H. Meininger, Mount Eden	2 50
Mrs. M. Brown, San Francisco H. Meininger, Mount Eden B. Hicks, Santa Clara	5 00
	50
N. Taskon Conta Clara	50
E D Cott Tillandanah Washington	500
F. R. Collin, Entensourgh, Washington	
N. Jackson, Santa Clara N. Jackson, Santa Clara F. R. Coffin, Ellensburgh, Washington James Kerr, San Jacinto H. A. Harms, Pleasanton	5 00
H. A. Harms, Pleasanton	1 00
Redington & Co., San Francisco	10 00
W. A. Schrock, San Francisco	5 00
Redington & Co., San Francisco W. A. Schrock, San Francisco Mrs. P. Grace, Madera	2 50
Rev. R. Bentley, Oakland	3 00

Jacob Eberhard, Santa Clara	<b>\$</b> 5 00
Mrs. H. P. Bowie San Mateo	5 00
Miss Gertrude Clough, Los Angeles E. E. Goodrich, Quito Olive Ranch Edgar Mills, San Francisco Miss Lizzie Weidemuller, San Francisco	5 00
E. E. Goodrich, Quito Olive Ranch	5 00
Edgar Mills, San Francisco	50 00
Miss Lizzie Weidemuller, San Francisco	5 00
Mrs. B. V. Weeks, Pescadero	2 50
Mrs. B. D. Miller, Sacramento	2 50
Mrs. B. V. Weeks, Pescadero Mrs. B. D. Miller, Sacramento Judge F. E. Spencer, San José David Leke, Monterey	5 00
David Jacks, Monterey Swedish Evangelical Lutheran Sunday School, San Francisco	5 00
Swedish Evangelical Lutheran Sunday School, San Francisco	3 55
Swedish Mission Church, San Francisco	1 35
William Alley, San Francisco	5 00
Swedish Mission Church, San Francisco William Alley, San Francisco Rev. Father A. V. Raggio, S. J., Santa Clara	5 00
Henry R. Judah, San Mateo	5 00
James A. Findley, San José	10 85
F. A. Jewell, Sacramento	2 50
Hugh Hamilton, Oakland	5 00
Mrs R D Murphy Son Tosé	20 00
Camilo Martin San Francisco	5 00
S I Coldsmith Santa Ana	1 00
Mrs. B. D. Murphy, San José Camilo Martin, San Francisco S. J. Goldsmith, Santa Ana Thomas Day & Co., San Francisco	2 50
Hon. Thomas J. Clunie, Washington, D. C.	20 00
Mys A F Walls Can Francisco	1 00
Mrs. A. E. Wells, San Francisco Dr. Waddams, Santa Clara	1 00
Mrs. Floring Potterson, Tinden	1 00
Mrs. Eleanor Patterson, Linden	5 00
Nicholas Stefano, Sacramento	3 00
G. A. Love, San Francisco	2 50
Maria Peterson, Napa City	1 00
Mrs. Bedford Bacon, Stockton Mrs. Thomas Smith, Stockton	
Mrs. Thomas Smith, Stockton	1 00
Mrs. L. Martin, Stockton Peter Christians, Stockton	1 00
Peter Christians, Stockton	50
Mrs. S. Hancock, Stockton	50
Frank Damerall, Stockton	50
William Wilkins, Stockton	1 00
Larkin Hunting, Stockton  James Ashley, Stockton	1 00
James Ashley, Stockton	50
M. K. Bacon, Stockton	1 00
<del>-</del>	
	<b>\$</b> 505 75

TABLE 14—DISBURSEMENTS—CHRISTMAS FUND OF 1889—VOUCHERS ON FILE IN THIS OFFICE.

Voucher.	How Expended.	Amount.
	Paid to inmates, as per request of donors, included in Table 13	\$15 00
No. 1	Paid to inmates, as per request of donors, included in Table 13  Newman & Levinson, supplies	20 00
No. 2	New York and San Francisco Collar and Cuff Company, supplies	7 75
No. 3	Bauer Bros., San Francisco, supplies	7 60
No. 4	M. Schwartz, San Francisco, supplies.	2 45
No. 5	Davis Bros., San Francisco, supplies	47 40
No. 6	Mrs. Barratt, Philadelphia, supplies	17 70
No. 7	John Wanamaker, Philadelphia, supplies Fiegenbaum & Co., San Francisco, supplies	43 42
No. 8	Fiegenbaum & Co., San Francisco, supplies	20 95
NO, 9	Bauer Bros., San Francisco, supplies	8 05 6 47
NO. 10	Bauer Bros., San Francisco, supplies Fiegenbaum & Co., San Francisco, supplies Maurice O'Brien, San José, supplies Maurice O'Brien, San José, supplies	4 75
NO. 11	Maurice O'Brien, San Jose, supplies	12 00
NO. 12	Expresses posters printing etc	30 30
NO. 13	Expressage, postage, printing, etc. The Arcade, San José, supplies	21 15
NO. 15	The Fair, San José, supplies.	1 30
No. 15	T W Hobson & Co. San loss supplies	19 75
No. 17	T. W. Hobson & Co., San José, supplies  Materials for children's entertainment	2 50
No 18	D. R. Niver & Co., Albany, N. Y., S. S. papers, etc.	17 50
No. 19	Kindergarten book of plays	1 45
No. 20	A. C. Kropp musical materials	4 55
No. 21	A. C. Kropp, musical materials  A. C. Kropp, musical materials	8 35
No. 22	O'Connor, Moffitt & Co., supplies	8 20
No. 23	Outing for one of the work girls.	
No. 24	A. C. Kropp, clarionet	15 00
No. 25	Fiegenbaum & Co., San Francisco, supplies	2 30

TABLE 14-Continued.

Voucher.	How Expended.	Amoun	ıt.
No. 27 No. 28 No. 29 No. 30 No. 31 No. 32 No. 33 No. 34 No. 35	Special rewards for children Outing for work girl Davis Bros., San Francisco, supplies Cunningham, Curtiss & Welch, San Francisco O. A. Hale & Co., San José, varieties Outing for boys Davis Bros., San Francisco, polyopticon Outing for girls Mrs. P. B. Holmes, picnic supplies Tent and presents for children A. H. Marten, San José, sewing-class materials	2 27 10 32 11 10 12 20 23	00 15 47 35 10 00 30 00 75
	Excess paid by Superintendent—deducted	\$505 \$505	18

The expenditures from our Christmas Fund have afforded us the means of supplying our children, not alone at "Christmas times," when abundance of all that gladdened the heart prevailed, but also pretty generally throughout the year, with toys, games, candy, ice cream, entertainments of various sorts, rewards of merit, gifts for progress and behavior, etc. The existence of the fund has been a source of untold delight, while to many it has brought creature comforts that have been thoroughly appreciated.

#### MISCELLANEOUS.

A SILVER MEDAL.—Last spring our children prepared an exhibit of their school and industrial work, for the International Exposition at Paris. The exhibit consisted of school examination papers in geography, history, elementary and higher arithmetic, penmanship, spelling, drawing, etc., and specimens of work in repousse, knitting, hand and machine sewing, outlining, embroidery, some articles of hand-made clothing, and quite an elaborate kindergarten display, prettily mounted in books specially for the occasion. The exhibit was forwarded with many misgivings on the part of our children—the distance seemed so great, the idea of competing with the whole world so novel and strange, the fear of finer, handsomer, and larger displays from the other institutions. overshadowing their modest efforts, all combined to render the outcome problematical. Indeed, some of these fears were shared by the older heads in the institution, but it was thought best to show what we were doing and to prepare as good an exhibit as our children's training permitted, trusting to the kindness of the officials of the exposition to give the same as favorable a display as its merits warranted. First came the good word that the United States Superintendent of Exhibits had received the articles safely; next that they had arrived safely in Paris and would be taken care of, and then after quite a long silence a request transmitted through the American Superintendent that they be donated to the National Library of France and the National Pedagogic Museum, which request, of course, was granted.

The next that was heard regarding our exhibit was the information conveyed in the following letter:

1825 FIFTH AVENUE, Troy, N. Y.

Superintendent Home for Feeble-Minded Children, Santa Clara, Cal.:

DEAR SIR: At the Paris Exposition your exhibit was awarded a "silver medal," which

will reach you through Department of State in due time.

The reporter of the jury which made the award has, by some accident, failed to receive reports, etc., which I left for him, and which are necessary for his report. I am collecting duplicate set to send to him. If you will soon send me your last report and any other desirable information I will much appreciate the favor. Yours respectfully,

C. WELLMAN PARKS, U. S. Superintendent, etc., Paris Exposition, 1889.—Per M.

There has been great rejoicing in the Home over this announcement, in which, again, older heads have shared the children's feelings. To secure so distinguished honors at an international exposition in a foreign country, is to have our work recognized on somewhat of an international basis, elevated above ordinary effort, and as an educational feature, as a branch of the great educational system of the world, sustained and extolled. To our institution it means more than any passing notice of the fact can possibly describe. Young in years, but strong in the faith, believing in our own works and confident that all elements of society must ultimately recognize the value and sustain the liberal education of the feeble-minded, the California Home has set its hand to the plow and will endeavor in the future, as it has attempted in the past, to lay the furrow full, deep, and straight in the fallow field it has preempted for its labors. To every friend of the Home the success of our exhibit will afford joy, and we doubt not that a responsive throb of State pride will quicken the pulses of even those who have heretofore doubted the utility of our work, and were more or less arrayed against us. We believe in the rights of the minority, and even our opponents have the right to demand facts and the evidences of practical results to sustain our theories and the promises we have made. The development of the intellectual faculties of our children, evidenced by their school and industrial work, are the best practical results that can be offered to demonstrate the correctness of our theories; and a silver medal from a world's competition, which must have come strictly as a reward of merit, is certainly a solid fact. A few more such facts and practical results and there will be no longer any opposition of which to demand an "unconditional surrender."

AUXILIARY STAFF (BENEFICIARIES).—The establishment of what we have at least temporarily called an "auxiliary staff," from among our inmates, marks, we believe, one of the most important steps that our Home has ever taken. This corps is composed of youths who have been under training for longer or shorter periods in the Home, and have made such proficiency in self-care, general education, and industrial ability, as to enable them to successfully fill important positions in the Home. In doing this they are not supplemental to paid labor, but supplant it. This will in the near future result in a very great retrenchment of wages.

The dining-rooms, three in number, officers', attendants', and children's, are under the charge of one of our girls, as a leader, who has a corps of eight other girls to assist, and all under the supervision of the Matron. The work here consists in sweeping, dusting, keeping floors in order, washing paints and windows, attending to the setting of the tables, the washing and wiping of the dishes, cutting bread, scouring knives and forks, waiting on tables, attending to the desserts, care of cook's pantry, and of milk pantry, receiving, measuring, and keeping an account of the milk, skimming, care of all milk pans and cans, preparation and distribution of the morning lunch for children, ringing of the daily order of bells, sweeping porches and walks about the household, and waiting on door at main entrance.

The cook's assistant prepares all vegetables, attends to the fuel and fires, keeps the kitchen and kitchen store-room in order, and in all other

respects fully attends to the usual duties of such a position.

The baker's assistant attends to the oven and fuel, has care of the bakery, assists in the preparation of articles to be baked, attends to the stores and delivers bread, etc.

CHILDREN'S ENTERTAINMENTS.—The usual entertainments on the various holidays and at stated periods between, have been continued throughout the year. For these delightful changes in the routine life of our children the balance carried over from the Christmas Fund has been drawn upon according to the original intention. In this connection the permanent stage erected in the Boys' Pavilion has been a valuable accessory. These entertainments, sometimes by the officers and sometimes by the children alone, we propose to continue. We look upon the play as one of the most valuable of all the aids available for the education of this class. It is object teaching extended to life lines, while at the same time it affords amusement, and thus impresses through the agency of the latter information and instruction upon their senses in an almost unconscious manner. We trust, and, on behalf of those who will be so greatly benefited by it, we plead, that in the completion of the plant now being erected at Gelston special pains will be taken to provide liberally in this direction. It is a matter no less important than the provision for school and class-rooms.

CENSUS OF THE FEEBLE-MINDED IN THE STATE.—We have been unable to obtain the census of the feeble-minded in California for 1890; but from what we know personally of the questionable system adopted for taking it, we are inclined to the assurance that whatever the figures shall be found to be, they will fall far short of the actual number. From a rather extensive correspondence over the State we have learned of the difficulty encounted in collecting accurate statistics; but we have ascertained that there exists a very large class of those unfortunates for whom no application for admission into this institution has been made. Some of the parents of these did not know of the existence of the Home. Some considered it a sort of branch of the insane asylums. Others, through false ideas of the proprieties involved, prefer to keep their children at home, and still others have made no application because of the known fact that we would not be able at this time, and probably might not be able for some time to come, to admit these cases if they did apply.

There were one hundred and forty-six applications filed with us from July 1, 1889, to October 1, 1890, but these do not include the whole

number that came to our knowledge.

31

THE SCOPE AND STATUS OF OUR WORK .- We are still convinced that much confusion of terms and many errors of opinion yet exist in the public mind—professional as well as lay—regarding the proper scope and status of our work. This state of affairs bears directly upon the subject of applications on the one hand, and the Home's extension on the other. We meet many people who express surprise upon being informed of our true status, and whose belief had previously been that the design of the institution was to provide a custodial home for idiots only. There are others again who think of us as maintaining some sort of adjunct to the insane asylums, while most people, not specially informed, underestimate the school and training features, upon which our choicest hopes are based, and which are really our distinguishing features from other lines of asylum work. It will sound strange to those acquainted with the institution for us to assert that we frequently meet people who urge the necessity of some sort of State care for the epileptics and weak-minded paralytics, not knowing that we have from the beginning cared for these so far as our means and accommodations would admit, are now caring for a large number of them, and have already under way at Gelston a unique building for their special care and treatment. Our speciality is so new to this coast that it seems much effort is required to set us right before the masses. In view of this state of affairs, therefore, it may not be amiss for us to dwell a moment upon the consideration of some of the points involved.

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

The term "feeble-minded" is used in a generic sense, and is designed to embrace all the grades of "mental obliquity," of intellectual weakness, of loss of brain function, of whatever kind and from whatever source, and of general abnormality of the brain and its functions through the various mental processes, associated or not with physical disease, and not otherwise coming under the generic head of insane. It is of wide range, as this discloses, and may include the whole field of mental alienation not assumed by the subject of pronounced insanity. Between its extremes it may embrace every known phase of nervous disease, pathological change, and biological condition. The gradations pass, by almost insensible degree, from the unmistakably feeble-minded to the unmistakably insane, but in practice, as a rule, little difficulty need be experienced in determining the exact status of each case. In this connection, it is proper for us to say that our work is neither supplemental to the care of the insane nor dependent upon it. It stands as independent of it as any special form of education stands independent of custodial care or hospital treatment without educational effort. There appears no reason why the two lines of work should not harmoniously blend, one with the other, in most, if not in all, practical particulars, for they are handmaidens in the same beneficent cause of succoring a distressed humanity. It would scarcely be fair to assert that they are parallel efforts. To express it rather tersely, the work of our asylums for the insane is principally to care for a diseased condition fully established, supervening upon other conditions of more or less pronounced sanity—to deal with an effect.

The special province of the Home for the Feeble-Minded is to deal with the incipient aberration of the mental processes—striking at the cause! It is possible for the care of the feeble-minded to lessen the existence of insanity to an astonishing extent—perhaps one half or more. From the nature of the prime conditions involved, the care of the pronounced

insane can never lessen the ranks of the feeble-minded, and is capable of preventing imbecility only to a minimum degree by the occasional removal of the element of parentage. Had the care for the feeble-minded originated and kept pace with the care for the insane in this State, there would have been to-day fewer of the latter class to care for. Another thought occurs to us in this relation. Asylums for the insane have been erected because of manifestations foreboding evil to the senses or the property of society—not to remove a great fundamental cause of disease. Society dreads most what it sees and hears, and nurses the illusion that what is not specially demonstrative is not immediately dangerous. There can be no greater fallacy. If all lunatics were undemonstrative, public apathy would be as indifferent to their isolation and rational treatment as it has been towards the care and education of the purely feebleminded. As it is, the imbecile boy or girl of fair face and innocent manner, stands fewer chances of State aid than the driveling idiot of misshapen form. Although they may need it more than the latter, the very hideousness of the latter's condition gives him an advantage over the former, and he is more quickly provided for.

This institution would remove from society the cause, so far as possible to do so. In this sense, then, we may be pardoned for considering the specialty as in advance of most other forms of correctional charity. Taking this view of it the care for the insane becomes supplemental to our own work—the last refuge for cases of hopeless mental change and weakness culled from the general mass of defectives as unfit or unable for consociate education—the "Court of last appeal!"

But, some will say, all insane are not children, nor are all cases chronic -as might be inferred from the foregoing-what of these? We admit the truth of the assertion, and reply by stating the simple fact that in the vast majority of cases insanity is hereditary from a previously vitiated stock, perhaps unrecognized as an insane condition, but closely allied to it if not identical with it, and comes sooner or later in life to those who are the offspring of feeble-minded parents, or else it is acquired through some of the vices of our civilization, coupled with the wasting errors of life. The seed that is sown by a grandfather may not germinate until a grandchild furnish the proper conditions for its development, and only in his children's children may it bring forth abundant fruit after its own kind. We think it safe to assert that in every case of so called insanity there is a first, or probationary stage of feeble-mindedness—the stage of incubation, so to speak. This stage may be of any duration, from an hour or less to a year or more. That it should not be recognized is no evidence that it does not exist.

The term "for Children," used in connection with our work, is a relic of its origin in the eastern United States, but has become quite obsolete of late years, except in a titular sense. In many of the States the words "for Children" have given way to the words "for Youth," or have been left out of the title altogether. We trust the latter will eventually become the case in California, where the Legislature—quite from the beginning—has opened wide our doors to all ages, thus placing our Home on a line with advanced thought in this relation.

Were all cases of mental disease first placed in a proper department of a Home for the Feeble-Minded during the stage of mental enfeeblement designated above, as the "stage of incubation, or probation," it follows as an axiomatic sequence that fewer would find their way to the

32

asylums than do under the present system. It is not confended that all would be cured, though it is hoped that such a course would prove beneficial to most and work no injustice nor hardship to any. This must not be construed as reflecting upon any other asylum. From my personal knowledge of those in this State they are all that money, skill, and kindness can make them. It does, however, bear upon the fact that the asylums have been grossly overcrowded, preventing proper classification, imperiling the self-sacrificing labors of the managements, and calling forth protests from the latter in no uncertain voice.

Before there could be completed what might be called the "Overflow Asylum" at Agnews, it was thought necessary to reëstablish it as a General Receiving Asylum, instead of "Hospital for the Chronic Insane," as was originally intended, and also to establish two other asylums of very considerable size, one north and one south, making five in the State equal to the accommodation of thousands of the insane, while accommodation for only a baker's dozen or so of feeble-minded persons had been provided. The wisdom of the last Legislature, however, promises to give our work for all time the generous support and the extension it justly needs. Thus, it will be seen, that the true province of a Home for the Feeble-Minded is to deal with cases before they reach the stage calling for asylum retention, as well as to provide a shelter for the purely feeble in mind, the congenitally idiotic, the epileptic, and the paralytic of feeble mind.

There are cases of juvenile insanity differing from the adult forms mainly in those particulars consequent upon the juvenile condition of life; but do the masses recognize this class, and do our asylums provide special accommodations for them? Do the asylums possess the facilities for treating them in all respects as modern society demands children shall be treated apart from adult defectives? Does any one acquainted with the facts advocate the continued incarceration of juveniles, even though violently insane, intermingled with adults of the same or a more dangerous class? We have had several applications from the officers of the asylums to take children now in their care, and known to be either feeble-minded, idiotic, or otherwise demented, and for whom the asylums afford no proper seclusion.

There can be no question that their continued association with the kind of adults they are thrown with is detrimental to their best interests, and scarcely permits of a hope for their restoration or advancement in any degree. The State law debars the admission of idiots into the insane asylums, and justly; and as it follows as a consequence that this institution must be provided with the means for the rational care of idiots in separate buildings from the imbecile grades, we also deem it proper that the State make additional provision in our asylum department for the custody of the juvenile insane — at least until such time as childhood is passed.

Classification.—We submit the following classification based upon that of Dr. I. N. Kerlin, who for over thirty years has been the successful head of the Pennsylvania Institution for the Care and Training of Feeble-Minded Children. This institution shelters over eight hundred of all grades, and affords unrivaled facilities for the formation of authoritative opinion:

Idiots: 1. Unteachable—Chiefly characterized by the exhibition of the vegetative functions. 2. Teachable—Vegetative, plus a modicum of mind permitting imitation; limited correlative action of two or more of the five senses; memory.

Idio-imbeciles: A type higher in endowments than "teachable idiots"; of mixed char-

acteristics, susceptible of considerable training in simple, uncomplicated lines, and often capable of self-help and light work.

Imbeciles: Usually subdivided into low, middle, and high grades, to denote relative development; susceptible of marked improvement in all educational and manual (industrial) pursuits; made up of many sub-types, the highest of which is the purely feeble-minded; includes in their proper relation, kleptomaniacs, pyromaniacs, moral imbeciles, etc.

Juvenile insanity has already been spoken of.

Epilepsy complicates all these grades, while the epileptoid dyscrasia may be the hidden, subtle spring from whence arises the ego of the majority of our mischievous, erratic, or criminal members of the defective and delinquent classes, whether recognized as "imbecilic" or not. This question is one of such grave importance in its economic and politic, as well as its correctional phases, that we deem it a just duty to throw against it with all the penetration at our command the strong

red light of professional warning.

We once heard it asserted by a prominent member of a State Legislature, in speaking of State appropriations for various charities, that "there are appropriations we may make, and there are appropriations we must make." Referring to the "fact" (?) that the insane must be provided for whether other grades of mental defect and disease were looked after or not. This is in the same illogical vein of reasoning that I once heard advanced on a similar occasion, viz.: That the insane must be provided for before any other class can be considered, "because they are dangerous to any community. The rights of the individual demanded that his life and property shall be protected as what the cost may be. Other defectives, who are not so dangerous, can be tolerated, etc., as in the past." Hence it would appear that fear of personal injury or proprietary loss is the motive power that most generally speeds the wheels of legislative action in these matters. The obligation of organized society is to relieve distressed parents of their feeble offspring, to prevent the physical and moral ruin of imbecile girls, and the development of the criminal in boys. The fitness of these things had not been considered, apparently, by these people, since these were the things an appropriation might be made for, to again quote their language. The prayers of a sorrow-shadowed family; the tears of anguished parents, goaded to desperation by the incubus of imbecility. with perhaps the horrors of poverty as the background; the plaintive appeals of virtue, beset by temptation, and left unsupported; all these were as a feather in the balance of their sense of justice, compared to the (to them) crushing weight of the argument of one maniac running "amuck" in the community.

Thanks to the advancement of the age, society has grown too rich, too strong, too kind, too compassionate, too humane, to longer tolerate in any community with neglectful indifference, that abject wretch of days gone by, "the village fool." Merciful men and women extend to the half-witted a full measure of their pity and protection. The infirmities or eccentricities of the demented are no longer the subject of brutal jest without rebuke. The world has found that it is not only the just and proper thing to do, but that it pays to expend time, energy, and money to undertake the cure of what, in the absence of remedial effort, becomes an ever spreading, pestilential, malodorous sore. But let us see if there, is no risk to person or property in allowing unrestricted liberty to some who are manifestly feeble-minded, while their more demonstrative kinsmen in disease—the insane—are quickly sequestered behind locks and bars.

The Epileptic at large, is, almost without the possibility of an exception, to the household and the community, an unknown factor for trouble. So far as their vagaries are understood by the public to be responsible for breaches of the law and of the peace, they are not only an unknown, but must, in many cases, remain an unknowable quantity, and for the reasons about to be given.

The unvarying trend of the epileptic disease, when unchecked or untreated, is to the goal of imbecility or the graver manias associated with true insanity, notwithstanding the rather misleading statement of Dr. Jas. W. Walk before the National Conference of Charities and Correction, in Baltimore, in May last, viz.: that "some of the most distinguished men, from Julius Cæsar down, have been epileptics."

Without entering upon the consideration of the pathology of the disease, we pass to what bears more particularly upon the assertion we have made. The psychological peculiarities are marked. One of the first symptoms to be noted is the obtunding of the finer sentiments and moralities, followed by the progressive depravity of those feelings which constitute the chief glory of a normal human being's moral and spiritual nature. Epilepsy, even before the outward expressions of the face and the spasm are noted, affects the ethics of character, and insidiously calls into action the meaner and baser forces of the victim's being. Deception takes the place of truth and candor. Petty vices crowd out the restraining sense of the moral obligation and opens the door for criminal intent. Cruelties of a minor sort afford a strange satisfaction, and the repulsive things of life may be gloated over, may be, withal, in secret, with a horrible fascination for details. So subtle, so gradual, the change from the normally right to the radically wrong, that we are not apt to recognize it, or, if recognized, to ascribe it to other causes and fail to comprehend its terrible significance. Most often the true meaning of it all is revealed to us only after some breach of prominence is made and the depraved state of the mind is exposed. The victim, at least at first, is not a willing agent to the commission of these vices. He first repels "the still small voice" that, in the innermost recesses of his being suggests the committing of wrong, and cunningly supplies a plausible cover for the act, and an escape from the consequences. But the repetition of the temptation brings him under the spell of the serpent's eye and fills him with a consuming curiosity to do the bidding of his unwelcome guest. He is as one tormented by invisible demons, who goad him to desperation if he attempts to refuse their solicitation, and who gloat over his ruin when he yields. The next chapter of this distressing story may disclose so pronounced a loss of the moral sense and responsibility that the victim now revels in the open commission of every known phase of crime that yulgarity, obscenity, hypocrisy, and general depravity can suggest.

Long before this stage is reached, however, his influence for evil in the community may have worked untold mischief. Because he is the unwilling and often unconscious agent of his own wrong doing, is the most palpable reason why he should be feared. The hidden nature of his propensities makes him to be dreaded as one always dreads an unseen foe. It is the element of uncertainty concerning all his acts that renders him so dangerous an element in society. Each case will present phases peculiar to that case, and the only law applicable is, apparently, the law of contraries. The individual becomes markedly that which he was not before, though it is possible, of course, to find predominating traits spasmodically exaggerated. He becomes that which it was not his desire or constitutional intent to be. This stage of his hopeless progress may not be characterized by the more familiar expressions of the disease, the convulsive signs. The stage of rapidly repeated convulsions, although usually introductory to the final act of the drama, lessens the danger to himself and others, by calling for and securing some sort of remedial restraint or seclusion.

The final state of the hopelessly afflicted victim is most miserable; language fails to fully describe the chamber of horrors in which his mind is entombed; the most vivid fancy falls short of the just conception of the intensity of his mental anguish. At times conscious of his gradual breaking up, his struggles to avert his impending doom are as frantic as they are futile; and as the aura again creeps over him his despairing cry and piteous gaze are simply heartrending. He is vascillated twixt hopes and fears, and his life becomes a fitful succession of physical pain, mental torture, and the most unreasonable hope of recovery from his distressing condition. He is as a blighted leaf prematurely shaken from off its stem from among the thousand leaves of life's early summer, to be caught up ere it touches mother earth and hurled hither and thither in the ever eddying winds of conflicting forces, to lie quivering at last in the fence corner of some remedial or correctional retreat until Nature's final dissolution kindly removes the object from our sight.

Were it possible to cause to pass before society's gaze the hidden causes of most theft, of intrigue, of conspiracy, of assault—even of arson and of murder-society would stand aghast at the revelation of the number actuated, not by the innate depravity of the individual per se to be corrected by the various penalties and incarceration in jails, or by the taking of life—radical cure that the latter is—but by epilepsy in some of its protean manifestations, to be corrected by rational treatment and continued retention in hospitals and asylums suitable for this class. The medical literature of the day records numerous cases of suddenly developed mania in epileptics and those afflicted with allied disorders. Sometimes they appear to be developed almost instantaneously, as on the street, for instance, and the first luckless person met may be the recipient of the epileptic's fury. A case illustrative of this occurred not long since in an eastern city. A business man consulted a physician for a certain nervous affection. The doctor diagnosed incipient epilepsy, and as mildly as he dared prepared the man for future treatment. The patient was permitted, at his own urgent request, we believe, to return home alone, the intention being to secure next day quarters in some safe retreat for his further care. On the way home, without a moment's warning, the epileptic explosion occurred, and a stranger who was passing was knocked down and brutally assaulted.

Dr. C. M. Hay, of the New Jersey State Asylum for Insane, in the "Journal of Nervous and Mental Disease" (Vol. 14, p. 374), thus describes the attack of a patient (a woman) under his care: "Suddenly starting from any employment at which she may be engaged, the patient utters a piercing scream and begins to run wildly up and down, with

wide open, staring eyes and dilated pupils. Any obstruction is overcome, and while in this state the woman is a marvel of strength; almost incredible stories being related by her attendants of her prowess. On one occasion she utterly demolished a partition of strong boards, and on another she wrenched away a settee on which a number of persons were sitting, and then dashed it down in a wreck and continued her flight." Hundreds of similar cases might be added if it were worth the while.

At the usually accepted ratio of two epileptics per thousand of population (which, by the way, we consider far below the average), there are about one hundred and thirty thousand epileptics in the United States. The number suffering from the epileptoid group of diseases may never be accurately computed, but the figures are certainly high. He, then, who would assert that the epileptic is a harmless and insignificant element in our population, reckons without his host. Dr. Fred. Peterson, of New York, is authority for the statement that there are over twelve thousand of these in the State of New York alone, and he gives only three hundred as the number cared for by the leading institutions outside of almshouses. What a startling condition of affairs this statement discloses! The following resumé of cases under our care in this institution may serve to throw some additional light upon the epileptic state for those who may not have given the matter any special thought.

An officer reports to us a certain child for repeated and apparently uncontrollable outbursts of temper, disobedience, foul language, inciting other children to acts of destruction and open rebellion; perhaps some windows have been broken, while a record of having been getting "bad" for some days is presented, with the commentary that "he is worse now than ever." We examine him taken in the act of some irregularity. The eyes are staring or glaring with a singular expression. The pulse is irregular, also the breathing. A doggedness of purpose, together with a certain unmistakable, but not easily defined, stupidity, betrays the epileptic state. We question him. He either admits his guilt and cunningly fabricates excuses, or else persistently falsifies with an abandon that is remarkable, even in the teeth of the most positive evidence to the contrary. To his mind, no evidence is convincing excepting that framed by his own words. We caution him, plead with him, exact promises. His answers may or may not be all that is desired. We send him to his work, or school-room, or play-yard. The trouble is repeated, perhaps in an aggravated form. We send him to bed to insure rest and quietness, and to remove him from sources of irritation in his inflamed, nervous state. A series of epileptic seizures completes the story, and after a few days he rises weak, perhaps in both body and mind, yet withal relieved, penitent, and refreshed.

A girl is reported for continued foulness of tongue and reprehensible acts. She worries the Matron with her waywardness, and seems unable to grasp the sense of the Matron's efforts to restrain her. Counsel, coaxing, bribes, shaming, all have no effect in eradicating the thoughts and apparent purposes of the wanton. The perversion of her sexual forces arouses a riot within her, and plays havoc with her otherwise good disposition. Seclusion is peremptorily demanded. A few spasms, like the clearing effect of a tempestuous thunder storm upon the heavy atmosphere, clears and refreshes, for a time, her moral nature. Like another Ophelia, she would seem to show that

"Thoughts impure may pass through minds of angels and of men

An attendant brings to the office a young man whose past record has been one of general confidence and goodness and willingness of disposition. In view of this he enjoyed special indulgences and privileges. But what a change! He is now ferocity itself. His eyes are those of a maniac. His fingers twitch, and he glares upon the attendant with almost demoniac malignancy. What has happened? In the course of a daily duty, which he has neatly performed for two or three years, a common place direction is given, and the young man replies vulgarly and impudently. A proper admonition from the attendant brings out a strange display of temper, and before the unsuspecting officer realizes the situation the young fellow steals upon him, and with horrible imprecation strikes him in the face and on the head and clutches at his throat. There is every indication that the desire to kill has been aroused, whether willingly or not on the part of the unfortunate is of little consequence. For the instant it is there. He succeeds in tearing clothes and doing some scratching, before he is secured and brought to us quivering with the intensity of his excitement. We hear the recital in full, and he admits it all in a sort of way that leads one to feel he is sorry he did not do greater damage. Dismissing the attendant, we have the young fellow sit down by us, and a long, quiet, earnest, low-toned talk, delivered kindly but firmly, brings him to tears, and then we realize that the epileptic fury has gone—the epileptic cloud has passed once more from over him. The diversion of his mind rapidly to other subjects. after his confession that it was "the bad feeling" within him that made him do so, completes the temporary treatment. He goes to the attendant humbly, and, we have no doubt sincerely, begs his pardon, and takes up the thread of daily duty where he dropped it, to continue it until interrupted by a spasm or such another attack as we have described. This one was the first in the history to our knowledge; the next may be to-morrow, next month, in an hour, or a year hence; perhaps never; no one can tell.

The establishment of a separate home for epileptics on our new site at Gelston, and the beginning of the work there upon such promising lines, has filled us with proudest hopes. It was a step in the right direction, and for which a grateful future will preserve for those who have founded it an immortal memory. In the consideration of this very question of providing special accommodations for the epileptics, Dr. Peterson (already quoted) has written:

For every other defective class provision has been made, in greater or less degree, for the insane, for idiots, for the deaf and dumb and blind, for the sick, for the crippled, for the aged and infirm, for young malefactors in reformatories, for the negro and the Indian; and for all of these improvement in care, treatment, or development, is continually progressing.

Almost alone, however, has the sufferer from epilepsy been left to shift for himself, usually an outcast from his family, expelled from the schools, denied industrial employment, shunned to a great extent by his fellows, left to grow up in idleness and ignorance, friendless, a prey to one of the most dreadful and most hopeless of human ills, refused admission to general hospitals, generally drifting at last to the almshouse and insane asylum. He is given refuge in the insane asylum, not as a rule because he is deprived of reason—although many epileptics do become demented or unmanageable—but because there is no other place for him to go. Hundreds, nay thousands of epileptics are in American asylums at this moment who do not really belong there, and of whom many will be found who do not show the slightest mental aberration. It is an injustice to the epileptic, and it is a detriment to the insane.

#### And in conclusion he says:

This essay has been written in the hope that some public sentiment may be aroused as to the necessities of this neglected class of defectives; in the hope \* \* \* for the early establishment in this or some other State of an epileptic colony, which shall become a home for the homeless, a place of refuge from many miseries, an educational institute for those who are forbidden the public schools, an industrial college for those to whom the ordinary avenues of trade are closed, a hospital where care or palliation shall be possible, and where the highest scientific minds may be enabled to discover some time a specific against one of the most woeful of human ills; in short, a prosperous, industrious, and thriving community to serve as a model for many other such yet to be founded on this continent.

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

In conclusion, we beg to here express our sincere appreciations of the innumerable courtesies and kindnesses received from the Trustees, both as a Board and as individuals. In these expressions of grateful appreciation, the Matron joins the writer in profound regard. These acts have strengthened our hands, encouraged us to renewed zeal when we might have wavered, and have been a never failing antidote for all the tire and anxiety of managerial care. We trust that our united efforts have found favor with the Board, and afforded you satisfaction amidst the perplexing cares of your responsible offices, and we hope that our labors in serving you in the fruitful year just entered upon may be such as to warrant a continuance of your valued esteem.

To the officers and members of the general staff, who have labored with us to further your designs and purposes, we have the pleasure of highly commending for their industry and conscientious interpretation of the needs of the various duties assumed. Without their personal efforts to further the interests of the Home upon the lines laid down to them, much that we now proudly point to would have been unaccomplished.

And, lastly, to the patrons and many friends of the Home who have shown us many personal considerations pleasant to note, remembered our children substantially, and appreciated our efforts in their behalf, our gratitude is also due, and thus publicly acknowledged.

I have now to invite your attention to the following tables as setting forth in detail the financial transactions of the institution for the past fiscal year:

#### SCHEDULE A.

RECAPITULATION OF RECEIPTS AND EXPENDITURES DURING THE FORTY-FIRST FISCAL YEAR ENDING JUNE 30, 1890.

Cr

June 30, 1889—By cash balance in hands of Treasurer	\$1,601 03
By cash balance in hands of Trustees	300 00
June 30, 1890-By warrants and coin from State Controller, account of main-	
tenance	38,718 45
By warrants and coin from State Controller, account of site and	•
building	53,981 10
By warrants and coin from State Controller, account of furni-	00,000
ture	3,242 70
By warrants and coin from State Controller, account of water,	<b>U</b> ,- <b>L</b> .
sewerage, etc.	129 28
By cash from parents and guardians, account of tuition and	
maintenance	2.832 00
By cash from the sale of live stock and junk	145 65
By cash from Bank of Santa Clara County (special deposit)	1.000 00
By cash from pank of Banta Clara County (special deposit)	166 66
By cash from rents at Hillgirt (Glen Ellen)	
By cash from interest on special deposit in bank	45 00
By cash from special donations	1,531 15

\$103,693 02

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#### Dr.

fune 30, 1890-To cash paid local creditors, account of maintenance at Santa		
Clara	\$30,374 2	21
To cash paid local creditors, account of maintenance at Hill-		
girt	8,344 2	24
To cash paid local creditors, account of site and buildings	53,978 6	30
To cash paid local creditors, account of furnishing	3,242 7	
To cash paid local creditors, account of water, sewerage, etc	129 2	
To cash paid State Treasurer	2,493 5	
To cash paid for musical instruments from Donation Fund	110 0	
To cash held by Trustees, as Contingent Fund for Hillgirt	100 0	
To cash advanced by Trustees from Special Fund, account of		
claims at Hillgirt	1,804 0	M
To cash on special deposit with Union Savings Bank, San José	2,000 0	
To cash in hands of B. D. Murphy, Treasurer.	983 1	
The count is here to of Communication to	130 7	
To State warrant in hands of Superintendent, unclaimed (ac-	100 1	, 0
count of Hillgirt)	2 5	รก
or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or many or man		_
	\$103 693 0	12

#### SCHEDULE B.

RECEIPTS FROM THE STATE CONTROLLER ON ACCOUNT OF THE APPROPRIATIONS FOR THE FORTY-FIRST FISCAL YEAR, ENDING JUNE 30, 1890.

#### Account of Maintenance.

1889—August 25—Received warrants Nos. 1930 to 1988 from State Controller  September 30—Received warrants Nos. 3633 to 3727 from State Controller October 17—Received warrants Nos. 4810 to 4871 from State Controller November 26—Received warrants Nos. 6892 to 6346 from State Controller December 20—Received warrants Nos. 8013 to 8063 from State Controller 1890—January 27—Received coin from the State Controller February 17—Received coin from the State Controller March 29—Received coin from the State Controller April 16—Received coin from the State Controller May 14—Received coin from the State Controller May 14—Received coin from the State Controller June 23—Received coin from the State Controller June 25—Received coin from the State Controller July 22—Received coin from the State Controller	8,605 2,822 2,764 2,936 2,415 2,831 3,934 3,138 173 3,838 1,942 1,875 3,351	81 42 03 22 87 15 74 77 82 81 98 51 28
Account of Site and Buildings.	\$38,718	<u>45</u>
1889—October 3—Received warrants Nos. 3893 to 3937 from State Controller October 23—Received warrants Nos. 5114 to 5222 from State Controller November 26—Received warrant No. 6947 from State Controller December 3—Received coin from State Controller 1890—January 27—Received coin from State Controller February 22—Received coin from State Controller April 16—Received coin from State Controller May 1—Received coin from State Controller July 22—Received coin from State Controller	\$613 167 25 50,000 30 52 1,090 18 1,984	20 00 00 00 00 20 25
Account of Furnishing.	\$53,981	10
1890—April 16—Received coin from State Controller  May 1—Received coin from State Controller  May 14—Received coin from State Controller  June 25—Received coin from State Controller  July 22—Received coin from State Controller	195 388	92 27 87 37
Account of Water, Sewerage, and Improvement of Grounds.	\$3,242	70
1890—May 14—Received coin from State Controller  July 22—Received coin from State Controller	\$111 17 \$129	50
	<b>4-20</b>	

#### SCHEDULE C.

PAYMENTS MADE FROM THE STATE APPROPRIATION FOR MAINTENANCE AT SANTA CLAR.
During the Forty-first Fiscal Year, Ending June 30, 1890.

DURING THE FORTY-FIRST FISCAL TEAR, ENDING JUNE 3	0, 1000.			
1889-August 27-Payroll for the month of July, salaries	\$1.129	16		
Oregon Improvement Company, coal	626	<b>0</b> 5		
Oregon Improvement Company, coalPacific Manufacturing Company, lumber	122	94		
Hancock & Regnart, meats	119	25		
Hancock & Regnart, meats J. B. O'Brien, dry goods and clothing	115	20		
Dr. A. E. Osborne, Superintendent, contingent expenses	105 93			
G. W. James provisions	93	62		
I. N. Thompson. cows.	90			
McGettigan & Co., bread	67			
The Farmers Union, supplies G. W. James, provisions I. N. Thompson, cows. McGettigan & Co., bread L. V. Garrigus, painting. S. Foster & Co., supplies E. J. Baker, coal. S. Oberdeener, drugs and medicines S. M. Stearns, fruit and eggs. John H. Johnson, cow.	65			
S. Foster & Co., supplies	61			
E. J. Baker, coal	55 50			
S. M. Steerns fruit and ages	45			
John H. Johnson, cow	45			
Loftus Bros., steam injector	30			
William Grey, machine work.	24			
J. Cereghino, vegetables and fruit	23			
C. Tischer, laundry soap	22			
Miss L. Bray, sewing.	20			
I M Paper livery expenses	16 14			
W S Dougless agent fire extinguishers	10			
E. H. Guppy & Son, stationery and school supplies.	10			
Best & Williams, meats	9			
Union Ice Company, ice	7	50		
H. A. Pfister, supplies	6			
G. E. Bowman, fish	5			
S. M. Stearns, fruit and eggs John H. Johnson, cow Loftus Bros., steam injector. William Grey, machine work J. Cereghino, vegetables and fruit C. Tischer, laundry soap Miss L. Bray, sewing Tribune Publishing Company, advertising supplies J. M. Raney, livery expenses W. S. Dougless, agent fire extinguishers E. H. Guppy & Son, stationery and school supplies Best & Williams, meats Union Ice Company, ice H. A. Pfister, supplies G. E. Bowman, fish The John Stocks Sons, supplies	1	00	\$3,087 0	A
1889—October 3—Payroll for the month of August, salaries	\$1.197	80	φυ,νοι υ	*
Pacific Manufacturing Company, lumber	394	79		
John Sallows, feed, etc.	293	53		
Pacific Manufacturing Company, lumber John Sallows, feed, etc. L. A. Sweatt, carpenter work. T. Klinkerfushc, mason work. The Farmers Union, supplies Hancock & Regnart, meats G. W. James, provisions S. Hustache, wood R. Menzell, kitchen and plumbing supplies. The Odorless Excavating Company, relieving cesspools T. W. Peterson & Co., brick	215			
T. Klinkerfushc, mason work.	185			
The Farmers Union, supplies	184 153			
G W Tames provisions	136			
S. Hustache, wood	132			
R. Menzell, kitchen and plumbing supplies	124	16		
The Odorless Excavating Company, relieving cesspools	100	00		
T. W. Peterson & Co., brick S. Oberdeener, drugs and medicines.	91 67	<u>00</u>		
S. Oberdeener, drugs and medicines.	67	25		
Ant Fotio supplies	63 59			
Goodyear Rubber Company hose	49			
R. A. Swain & Co., crockery	41			
S. H. Knapp, contingent expenses	29	64		
J. Cereghino, vegetables and fruit	22		•	
M. Morganthau, laundry soap Ant. Fatjo, supplies. Goodyear Rubber Company, hose R. A. Swain & Co., crockery S. H. Knapp, contingent expenses J. Cereghino, vegetables and fruit H. A. Pfister, lime, etc. Universal Bakery, cream and cakes John Stocks Sons gas fittings and fixtures	18			
Universal bakery, cream and cakes	14 12			
E. Knickerhocker ice	8			
E. H. Guppy & Son, stationery	5			
John Stocks Sons, gas fittings and fixtures  E. Knickerbocker, ice  E. H. Guppy & Son, stationery  Bancroft Company, school supplies	3			
· · · · · · · · · · · · · · · · · · ·			\$3,605 81	1
1889—October 18—Payroll for the month of September, salaries	\$1,209	00		
J. B. O'Brien, dry goods, bedding, etc.  The Farmers Union, supplies	246 192			
Ant Fatio supplies	169			
G. W. James, provisions	135	06		
Ant. Fatjo, supplies G. W. James, provisions S. Hustache, wood Hancock & Regnart, meats	126	56		
Hancock & Regnart, meats	125			
McGettigan & Co., bread	98			
B. Hicks, shoes and repairs	75 <b>6</b> 5			
W. E. Wadams, V.S., professional services	50			
Mrs. Katherine B. Lathrop, Trustee, traveling expenses	41			
McGettigan & Co., bread B. Hicks, shoes and repairs Mrs. S. M. Stearns, fruit and eggs W. E. Wadams, V.S., professional services Mrs. Katherine B. Lathrop, Trustee, traveling expenses L. L. Solomons, attorney, professional services.	38			

S. Oberdeener, drugs and medicines   \$32 05		•	
Dr. A. E. Osborne, Superintendent, contingent expenses   30 98	S. Oberdeener, drugs and medicines	\$32 05	
Lucius L. Solomons, traveling expenses	Dr. A. E. Osborne, Superintendent, contingent expenses	30 98	
Mrs. Julia M. Judah, traveling expenses   16 80	Lucius L. Solomons, traveling expenses	29 50	
Pacific Manufacturing Company, lumber	J. Cereghino, vegetables and fruit	18 15	
Charles Hirth, water repairs	Mrs. Juna M. Judan, traveling expenses		
A. A. Gosbee, piano repairs, etc.			
William Harney, Trustee, traveling expenses   12 80	A. A. Gosbee, piano repairs, etc.	14 50	•
L. B. Ingalls, repairs to windmill 9 80  T. E. Gallup, dental services 9 50  E. Knickerbocker, ice 9 9 00  G. B. McKee & Co., supplies 7 9  George Free, truckage 6 00  M. I. Stafford, newspapers 9 4 00  Then & Ehlers, sipplies 9 4 00  Then & Ehlers, sipplies 9 4 00  C. A. Murdock, traveling expenses 3 20  E. H. Guppy & Son, stationery 2 00  1889—November 26—Payroll for the month of October, salaries 3 30  E. H. Guppy & Son, stationery 2 200  1889—November 26—Payroll for the month of October, salaries 38 38  R. A. Logan, wood 2 257 35  John Sallows, hay 200 25  Hancock & Regnart, meats 166 65  G. W. James, provisions 100 34  Dr. A. E. Osborne, Superintendent, contingent expenses 89 97  S. Hustache, wood 77 57 77  G. W. Seifert, M.D., medical attendance 47 00  S. M. Stearns, eggs and fruit 199 199 199 199 199 199 199 199 199 19	William Harney, Trustee, traveling expenses	12 80	
E. K. Rickerbocker, 10e G. B. McKee & Co., supplies 7 7 90 George Free, truckage 6 00 M. J. Stafford, newspapers 4 20 The Baneroft Company, school supplies 4 20 Dunn & Ehlers, sign painting 4 00 Dunn & Ehlers, sign painting 4 00 C. A. Murdock, traveling expenses 3 20 E. H. Guppy & Son, stationery 2 00 The Farmers Union, supplies 228 39 E. A. Logan, wood 227 35 Jun Sallows, hey, 166 66 G. W. James, experimental 167 168 G. W. James, experimental 168 G. W. James, experimental 169 169 S. Hustache, wood 169 S. Hustache, wood 170 S. M. Stearns, eggs and fruit 39 27 Pacific Manufacturing Company, lumber 37 14 Lucius L. Solomons, professional services 37 10 S. Oberdeener, drugs and medicines 29 46 J. Cereghino, regetables and fruit 28 36 W. A. Schrock, iron bedsteads 28 00 E. H. Guppy & Son, stationery 152 Garden City Drug Store, brushes 14 40 John A. Day, blacksmithing 13 25 S. Foster & Co., woodenware, etc. 12 00 Theodore Messenger, hair cutting, etc. 10 00 E. Knickerbocker, ice. 37 56 The John Stocks Sons, repairs 150 The Bancroft Company, school supplies 319 25 The Farmers Union, supplies 319 25 The Farmers Union, supplies 319 26 The John Stocks Sons, repairs 150 G. W. James, provisions 313 64 S. Hustache, wood 318 50 G. W. James, provisions 319 64 S. Hustache, wood 318 50 G. W. James, provisions 319 64 S. Hustache, wood 318 50 G. W. James, provisions 319 64 S. Hustache, wood 318 50 G. W. Jiames, provisions 319 64 S. Hustache, wood 318 50 G. W. Jiames, provisions 319 64 S. Hustache, wood 318 50 G. W. Jiames, provisions 319 65 G. W. Jiames, provisions 319 65 G. W. Jiames, provisions 319 65 G. W. Jiames, provisions 319 65 G. Hustache, wood 318 50 G. W. Rines well boring 32 30 G. W. Jiames, provisions 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes and repairs 32 30 G. B. Hicks, shoes a	L. B. Ingalls, repairs to windmill	9 80	
George Free, truckage	T. E. Gallup, dental services	9 50	
George Free, truckage	G. R. McVee & Co. supplies	7 90	
M. J. Stafford, newspapers	George Free truckage	6 00	
The Bancroft Company, school supplies 4 00 Dunn & Ehlers, sien painting 4 00 C. A. Murdock, traveling expenses 3 20 E. H. Guppy & Son, stationery 20 E. H. Guppy & Son, stationery 20 1889—November 20—Payroll for the month of October, salaries 283 39 R. A. Logan, wood 257 35 John Sallows, hay 200 25 Hancock & Regnart, meats 166 66 G. W. James, provisions 166 65 G. W. James, provisions 166 65 G. W. James, provisions 169 34 Dr. A. E. Osborne, Superintendent, contingent expenses 86 97 S. Hustache, wood 75 37 G. W. Seifert, M.D., medical attendance 47 00 S. M. Stearns, eggs and fruit 39 27 Pacific Manufacturing Company, lumber 37 14 Lucius L. Solomons, professional services 37 00 S. Oberdeener, drugs and medicines 29 45 J. Cereghino, vegetables and fruit 28 35 W. A. Schrock, iron bedsteads 28 00 E. H. Guppy & Son, stationery 168 86 A. R. Woodams, hay 182 Garden City Drug Store, brushes 14 40 John A. Day, blacksmithing 13 26 S. Foster & Co., woodenware, etc. 12 00 Theodore Messenger, hair cutting, etc. 10 00 E. Knickerbocker, ice. 376 The John Stocks Sons, repairs 150 The Bancroft Company, school supplies 280 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 189 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G. W. James, provisions 199 G.	M. J. Stafford, newspapers	4 20	
Dunn & Ehlers, sign painting	The Bancroft Company, school supplies	4 00	
E. H. Guppy & Son, stationery.    1889—November 28—Payroll for the month of October, salaries.   200   328   389   38   R. A. Logan, wood   257   355   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351   351	Dunn & Ehlers, sign painting	4 00	
\$2,822 42   The Farmers Union, supplies   \$2,822 42   R. A. Logan, wood   \$257 35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35   \$35			
1889—November 26—Payroll for the month of October, salaries.   \$1,209 00	E. H. Guppy & Son, stationery	2 00	<b>\$9.899.49</b>
The Farmers Union, supplies	1889.—November 26.—Payroll for the month of October salaries	\$1.209.00	\$2,022 TO
R. A. Logan, wood	The Farmers Union, supplies	293 39	
John Sallows, hay	R. A. Logan, wood	257 35	
G. W. James, provisions. 160 34 Dr. A. E. Osborne, Superintendent, contingent expenses. 86 97 S. Hustache, wood 75 37 G. W. Seifert, M.D., medical attendance 47 00 S. M. Stearns, eggs and fruit. 39 27 Pacific Manufacturing Company, lumber. 37 14 Lucius L. Solomons, professional services 37 00 S. Oberdeener, drugs and medicines 29 45 J. Cereghino, vegetables and fruit. 28 35 W. A. Schrock, iron bedsteads. 28 00 E. H. Guppy & Son, stationery 16 85 A. R. Woodams, hay 15 26 Garden City Drug Store, brushes 14 40 John A. Day, blacksmithing 13 25 S. Foster & Co., woodenware, etc. 12 00 Theodore Messenger, hair cutting, etc. 10 00 E. Knickerbocker, ice. 376 The John Stocks Sons, repairs. 150 The Bancroft Company, school supplies 150 Ant. Fatjo, supplies 280 J. B. O'Brien, dry goods and clothing 213 12 R. Menzell, water and plumbing 204 91 G. W. James, provisions 139 64 S. Hustache, wood 135 00 John Sallows, plowing, etc. 94 00 G. W. Rines, well boring 88 20 Hancock & Regnart, meats 57 66 Pacific Manufacturing Company, lumber 21 38 R. A. Swain & Co., crockery 18 79 A. Clement Kropp, musical supplies 19 18 R. A. Swain & Co., crockery 18 79 A. Clement Kropp, musical supplies 19 18 J. Cerghino, vegetables and fruits 10 15 Mrs. E. A. Yard, fruit, etc. 10 94 J. W. Findlay, Trustee, traveling expenses 10 85 J. Cerghino, vegetables and fruits 10 15 Mrs. E. A. Yard, fruit, etc. 10 94 Ant. Fatjo, supplies 18 50 Loftus Bros., engineer supplies 18 50 Ant. Fatjo, supplies 18 50 Ant. Fatjo, supplies 18 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., engineer supplies 18 50 Ant. Fatjo, supplies 18 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., loging etc. 19 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., loging etc. 19 50 Loftus Bros., engineer supplies 18 50 Loftus Bros., loging etc. 19 50 Loftus Bros., loging etc. 19 50 Loftus Bros., loging etc. 19 50 Loftus B	John Sallows, hav		
S. Hustache, wood G. W. Seifert, M.D., medical attendance 37 G. W. Seifert, M.D., medical attendance 39 27 Pacific Manufacturing Company, lumber 39 27 Pacific Manufacturing Company, lumber 30 28 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs drugs, stationery 30 08 S. Oberdeener, drugs drugs, stationery 31 08 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 32 09 S. Foster & Co., woodenware, etc. 32 09 S. Foster & Co., woodenware, etc. 33 09 S. Foster & Co., woodenware, etc. 34 09 S. Foster & Co., woodenware, etc. 35 09 S. Foster & Co., woodenware, etc. 36 09 S. Foster & Co., woodenware, etc. 37 09 S. Foster & Co., woodenware, etc. 37 09 S. Foster & Co., woodenware, etc. 37 09 S. Foster & Co., woodenware, etc. 38 09 S. Foster & Co., woodenware, etc. 39 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc.	Hancock & Regnart, meats		
S. Hustache, wood G. W. Seifert, M.D., medical attendance 37 G. W. Seifert, M.D., medical attendance 39 27 Pacific Manufacturing Company, lumber 39 27 Pacific Manufacturing Company, lumber 30 28 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs and medicines 30 08 S. Oberdeener, drugs drugs, stationery 30 08 S. Oberdeener, drugs drugs, stationery 31 08 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 31 09 S. Foster & Co., woodenware, etc. 32 09 S. Foster & Co., woodenware, etc. 32 09 S. Foster & Co., woodenware, etc. 33 09 S. Foster & Co., woodenware, etc. 34 09 S. Foster & Co., woodenware, etc. 35 09 S. Foster & Co., woodenware, etc. 36 09 S. Foster & Co., woodenware, etc. 37 09 S. Foster & Co., woodenware, etc. 37 09 S. Foster & Co., woodenware, etc. 37 09 S. Foster & Co., woodenware, etc. 38 09 S. Foster & Co., woodenware, etc. 39 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc. 30 09 S. Foster & Co., woodenware, etc.	Dr. A. F. Ogherne Superintendent continuent expenses	100 54	
S. M. Stearns, eggs and fruit. 39 Pacific Manufacturing Company, lumber 37 Pacific Manufacturing Company, lumber 37 Lucius L. Solomons, professional services. 37 O S. Oberdeener, drugs and medicines 28 J. Cereghino, vegetables and fruit 28 J. Cereghino, vegetables and fruit 28 W. A. Schrock, iron bedsteads. 28 O E. H. Guppy & Son, stationery 16 S. A. R. Woodams, hay 15 Garden City Drug Store, brushes 14 John A. Day, blacksmithing 13 S. Foster & Co., woodenware, etc. 12 O Theodore Messenger, hair cutting, etc. 10 E. Knickerbocker, ice. 37 The John Stocks Sons, repairs. 150 The Bancroft Company, school supplies 150 The Bancroft Company, school supplies 280 Ant. Fatjo, supplies 280 Ant. Fatjo, supplies 280 J. B. O'Brien, dry goods and clothing 213 G. W. James, provisions 139 G. W. James, provisions 139 G. W. James, provisions 139 G. W. James, provisions 139 G. W. Hustache, wood 150 Hancock & Regnart, meats 57 Dr. A. E. Osborne, Superintendent, contingent expenses 26 Pacific Manufacturing Company, lumber 21 G. W. Findlay, Trustee, traveling expenses 10 S. J. Cereghino, vegetables and fruits 10 Mrs. E. A. Yard, fruit, etc. 10 J. W. Findlay, Trustee, traveling expenses 10 S. J. Cereghino, vegetables and fruits 10 Loftus Bros., engineer supplies 10 S. J. B. O'Brien, dry goods, clothing, etc. 183 S. D. Hancock & Regnart, meats 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. G. W. James, provisious 11 S. S. S. S. S. S. S. S. S. S. S. S. S. S	S. Hustache wood	75 37	
S. M. Stearns, eggs and fruit. 39 Pacific Manufacturing Company, lumber 37 Pacific Manufacturing Company, lumber 37 Lucius L. Solomons, professional services. 37 O S. Oberdeener, drugs and medicines 28 J. Cereghino, vegetables and fruit 28 J. Cereghino, vegetables and fruit 28 W. A. Schrock, iron bedsteads. 28 O E. H. Guppy & Son, stationery 16 S. A. R. Woodams, hay 15 Garden City Drug Store, brushes 14 John A. Day, blacksmithing 13 S. Foster & Co., woodenware, etc. 12 O Theodore Messenger, hair cutting, etc. 10 E. Knickerbocker, ice. 37 The John Stocks Sons, repairs. 150 The Bancroft Company, school supplies 150 The Bancroft Company, school supplies 280 Ant. Fatjo, supplies 280 Ant. Fatjo, supplies 280 J. B. O'Brien, dry goods and clothing 213 G. W. James, provisions 139 G. W. James, provisions 139 G. W. James, provisions 139 G. W. James, provisions 139 G. W. Hustache, wood 150 Hancock & Regnart, meats 57 Dr. A. E. Osborne, Superintendent, contingent expenses 26 Pacific Manufacturing Company, lumber 21 G. W. Findlay, Trustee, traveling expenses 10 S. J. Cereghino, vegetables and fruits 10 Mrs. E. A. Yard, fruit, etc. 10 J. W. Findlay, Trustee, traveling expenses 10 S. J. Cereghino, vegetables and fruits 10 Loftus Bros., engineer supplies 10 S. J. B. O'Brien, dry goods, clothing, etc. 183 S. D. Hancock & Regnart, meats 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. J. Cereghino, vegetables and fruits 10 S. G. W. James, provisious 11 S. S. S. S. S. S. S. S. S. S. S. S. S. S	G. W. Seifert, M.D., medical attendance	47 00	
Pacific Manufacturing Company, lumber	S. M. Stearns, eggs and fruit	39 27	
S. Oberdeener, drugs and medicines	Pacific Manufacturing Company, lumber	37 14	
J. Cereghino, vegetables and fruit 28 85 W. A. Schrock, iron bedsteads. 28 00 E. H. Guppy & Son, stationery 16 85 A. R. Woodams, hay 15 25 Garden City Drug Store, brushes 14 40 John A. Day, blacksmithing 13 26 8. Foster & Co., woodenware, etc. 12 00 Theodore Messenger, hair cutting, etc. 10 00 E. Knickerbocker, ice 37 75 The John Stocks Sons, repairs 150 The Bancroft Company, school supplies 150 The Bancroft Company, school supplies 250 Ant. Fatjo, supplies 260 J. B. O'Brien, dry goods and clothing 213 12 R. Menzell, water and plumbing 204 91 G. W. James, provisions 139 64 S. Hustache, wood 185 00 John Sallows, plowing, etc. 94 00 G. W. Rines, well boring 82 00 Hancock & Regnart, meats 75 05 S. Oberdeener, drugs and medicines 75 05 S. Oberdeener, drugs and medicines 75 05 S. Oberdeener, drugs and medicines 75 05 S. Oberdeener, drugs and medicines 75 05 S. Oberdeener, drugs and medicines 16 05 P. A. E. Osborne, Superintendent, contingent expenses 16 06 Pacific Manufacturing Company, lumber 21 03 R. A. Swain & Co., crockery 18 79 A. Clement Kropp, musical supplies 14 00 Mrs. E. A. Yard, fruit, etc. 10 94 J. W. Findlay, Trustee, traveling expenses 10 85 J. Cereghino, vegetables and fruits 10 15 Mrs. E. Hillman, poultry 85 E. H. Guppy & Son, stationery 51 Loftus Bros., engineer supplies 51 Loftus Bros., engineer supplies 51 R. A. Clement Kropp, musical supplies 51 Loftus Bros., engineer supplies 51 Loftus Bros., engineer supplies 51 Loftus Bros., engineer supplies 51 Loftus Bros., engineer supplies 51 Loftus Bros., engineer supplies 51 Loftus Bros., engineer supplies 51 R. A. O'Brien, dry goods, clothing, etc. 152 G. W. James, provisious 52 G. W. James, provisious 53 B. Hicks, shoes and repairs 53 B. Hicks, shoes and repairs 56 Dr. A. E. Osborne, Superintendent, contingent expenses 76 Framers Union, supplies 76 Framers Union, supplies 76 Framers Union, supplies 76 Framers Union, supplies 76 Framers Union, supplies 76 Framers Union, supplies 77 Framers Union, supplies 77 Framers Union, supplies 77 Framers Union, sup	Lucius L. Solomons, professional services	37 00	
W. A. Schrock, iron bedsteads	S. Oberdeener, drugs and medicines		
E. H. Guppy & Son, stationery	W. A. Schrock iron bodstoods	20 00	
Garden City Drug Store, brushes 14 40 John A. Day, blacksmithing 13 25 S. Foster & Co., woodenware, etc. 12 00 Theodore Messenger, hair cutting, etc. 10 00 E. Knickerbocker, ice 37 75 The John Stocks Sons, repairs 150 The Bancroft Company, school supplies 150 The Bancroft Company, school supplies 210 Ant. Fatjo, supplies 220 J. B. O'Brien, dry goods and clothing 213 12 R. Menzell, water and plumbing 204 91 G. W. James, provisions 139 64 S. Hustache, wood John Sallows, plowing, etc. 94 00 G. W. Rines, well boring 88 20 Hancock & Regnart, meats 75 05 S. Oberdeener, drugs and medicines 59 15 Dr. A. E. Osborne, Superintendent, contingent expenses 26 60 Pacific Manufacturing Company, lumber 21 03 R. A. Swain & Co., crockery 18 79 A. Clement Kropp, musical supplies 10 94 J. W. Findlay, Trustee, traveling expenses 10 85 J. Cereghino, vegetables and fruits 10 15 Mrs. E. A. Yard, frut, etc. 10 94 J. W. Findlay, Trustee, traveling expenses 10 85 J. Cereghino, vegetables and fruits 10 15 Mrs. E. Hillman, poultry 850 E. H. Guppy & Son, stationery 51 Lottus Bros., engineer supplies 10 15 Mrs. E. Hillman, poultry 850 Ant. Fatjo, supplies 183 25 J. B. O'Brien, dry goods, clothing, etc. 152 25 G. W. James, provisious 93 03 B. Hicks, shoes and repairs 81 05 Hancock & Regnart, meats 80 85 Dr. A. E. Osborne, Superintendent, contingent expenses 76 67	E. H. Gunny & Son stationery	16 85	
Garden City Drug Store, brushes   14 40     John A. Day, blacksmithing   13 25     S. Foster & Co., woodenware, etc.   12 00     Theodore Messenger, hair cutting, etc.   10 00     E. Knickerbocker, ice.   3 75     The John Stocks Sons, repairs.   1 50     The Bancroft Company, school supplies   1 50     The Bancroft Company, school supplies   1 50     The Bancroft Company, school supplies   1 50     The Farmers Union, supplies   260 09     J. B. O'Brien, dry goods and clothing   213 12     R. Menzell, water and plumbing   204 91     G. W. James, provisions   139 64     S. Hustache, wood   135 00     John Sallows, plowing, etc.   94 00     G. W. Rines, well boring   88 20     Hancock & Regnart, meats   75 06     S. Oberdeener, drugs and medicines   59 15     Dr. A. E. Osborne, Superintendent, contingent expenses   26 60     Pacific Manufacturing Company, lumber   21 03     R. A. Swain & Co., crockery   18 79     A. Clement Kropp, musical supplies   14 00     Mrs. E. A. Yard, fruit, etc.   10 94     J. W. Findlay, Trustee, traveling expenses   10 85     J. Cereghino, vegetables and fruits   10 15     Mrs. E. Hillman, poultry   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery   8 50     E. H. Guppy & Son, stationery	A. R. Woodams, hav	15 25	
Theodore Messenger, har cutting, etc.   10 00	Garden City Drug Store, brushes	14 40	
Theodore Messenger, har cutting, etc.   10 00	John A. Day, blacksmithing	13 25	
E. Knickerbocker, ice. 37b The John Stocks Sons, repairs. 150 The Bancroft Company, school supplies. 150 The Bancroft Company, school supplies. 150  1889—December 21—Payroll for the month of November, salaries \$1,209 00 Ant. Fatjo, supplies 260 09 J. B. O'Brien, dry goods and clothing 213 12 R. Menzell, water and plumbing 204 91 G. W. James, provisions 139 64 S. Hustache, wood 185 00 John Sallows, plowing, etc. 94 00 G. W. Rines, well boring 88 20 Hancock & Regnart, meats 75 05 S. Oberdeener, drugs and medicines 59 15 Dr. A. E. Osborne, Superintendent, contingent expenses 26 60 Pacific Manufacturing Company, lumber 21 03 R. A. Swain & Co., crockery 18 79 A. Clement Kropp, musical supplies 14 00 Mrs. E. A. Yard, frut, etc. 10 94 J. W. Findlay, Trustee, traveling expenses 10 85 J. Cereghino, vegetables and fruits 10 15 Mrs. E. Hillman, poultry 850 E. H. Guppy & Son, stationery 515 Loftus Bros., engineer supplies 380 Ant. Fatjo, supplies 518 25 J. B. O'Brien, dry goods, clothing, etc. 152 G. W. James, provisious 93 03 B. Hicks, shoes and repairs 10 56 Hancock & Regnart, meats 80 85 Dr. A. E. Osborne, Superintendent, contingent expenses 76 67	S. Foster & Co., woodenware, etc.	12 00	
The John Stocks Sons, repairs	Theodore Messenger, hair cutting, etc.		•
## Sancroft Company, school supplies   150   \$2,764 08    ## 1889—December 21—Payroll for the month of November, salaries   \$1,209 00    ## Ant. Fatjo, supplies   260 09    ## I. B. O'Brien, dry goods and clothing   213 12    ## R. Menzell, water and plumbing   204 91    ## G. W. James, provisions   139 64    ## S. Hustache, wood   135 00    ## John Sallows, plowing, etc.   94 00    ## G. W. Rines, well boring   88 20    ## Hancock & Regnart, meats   59 15    ## Dr. A. E. Osborne, Superintendent, contingent expenses   26 60    ## Pacific Manufacturing Company, lumber   21 03    ## R. A. Swain & Co., crockery   18 79    ## A. Clement Kropp, musical supplies   14 00    ## Mrs. E. A. Yard, frut, etc.   10 94    ## J. W. Findlay, Trustee, traveling expenses   10 85    ## J. Cereghino, vegetables and fruits   10 15    ## Mrs. E. Hillman, poultry   8 50    ## E. H. Guppy & Son, stationery   5 15    ## Loftus Bros., engineer supplies   183 25    ## J. B. O'Brien, dry goods, clothing, etc.   152 25    ## G. W. James, provisions   93 03    ## B. Hicks, shoes and repairs   81 05    ## Hancock & Regnart, meats   80 85    ## Dr. A. E. Osborne, Superintendent, contingent expenses   76 67    ## Total Company of the meats   16 15    ## Ancock & Regnart, meats   80 85    ## Dr. A. E. Osborne, Superintendent, contingent expenses   76 67    ## Total Company of the meats   80 85    ## Dr. A. E. Osborne, Superintendent, contingent expenses   76 67    ## Total Company of the meats   80 85    ## Dr. A. E. Osborne, Superintendent, contingent expenses   76 67    ## Total Company of the meats   80 85    ## Total Company of the meats   80 85    ## Dr. A. E. Osborne, Superintendent, contingent expenses   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ## Total Company of the meats   76 67    ##	The John Stocks Sons renairs		
\$2,764 08   \$1,209 00   Ant. Fatjo, supplies	The Bancroft Company, school supplies		
Ant. Fatjo, supplies	- · · · · · · · · · · · · · · · · · · ·		\$2,764 03
J. B. O'Brien, dry goods and clothing   213 12     R. Menzell, water and plumbing   204 91     G. W. James, provisions   139 64     S. Hustache, wood   135 00     John Sallows, plowing, etc.   94 00     G. W. Rines, well boring   88 20     Hancock & Regnart, meats   75 05     S. Oberdeener, drugs and medicines   59 15     Dr. A. E. Osborne, Superintendent, contingent expenses   26 60     Pacific Manufacturing Company, lumber   21 03     R. A. Swain & Co., crockery   18 79     A. Clement Kropp, musical supplies   14 00     Mrs. E. A. Yard, fruit, etc.   10 94     J. W. Findlay, Trustee, traveling expenses   10 85     J. Cereghino, vegetables and fruits   10 15     Mrs. E. Hillman, poultry   8 50     E. H. Guppy & Son, stationery   5 15     Loftus Bros., engineer supplies   3 80     Ant. Fatjo, supplies   183 25     J. B. O'Brien, dry goods, clothing, etc.   152 25     G. W. James, provisious   93 03     B. Hicks, shoes and repairs   81 05     Hancock & Regnart, meats   80 85     Dr. A. E. Osborne, Superintendent, contingent expenses   76 67	1889—December 21—Payroll for the month of November, salaries	\$1,209 00	
J. B. O'Brien, dry goods and clothing   213 12     R. Menzell, water and plumbing   204 91     G. W. James, provisions   139 64     S. Hustache, wood   135 00     John Sallows, plowing, etc.   94 00     G. W. Rines, well boring   88 20     Hancock & Regnart, meats   75 05     S. Oberdeener, drugs and medicines   59 15     Dr. A. E. Osborne, Superintendent, contingent expenses   26 60     Pacific Manufacturing Company, lumber   21 03     R. A. Swain & Co., crockery   18 79     A. Clement Kropp, musical supplies   14 00     Mrs. E. A. Yard, fruit, etc.   10 94     J. W. Findlay, Trustee, traveling expenses   10 85     J. Cereghino, vegetables and fruits   10 15     Mrs. E. Hillman, poultry   8 50     E. H. Guppy & Son, stationery   5 15     Loftus Bros., engineer supplies   3 80     Ant. Fatjo, supplies   183 25     J. B. O'Brien, dry goods, clothing, etc.   152 25     G. W. James, provisious   93 03     B. Hicks, shoes and repairs   81 05     Hancock & Regnart, meats   80 85     Dr. A. E. Osborne, Superintendent, contingent expenses   76 67	Ant. Fatjo, supplies		
R. Menzell, water and plumbing       204       91         G. W. James, provisions       139       64         S. Hustache, wood       135       00         John Sallows, plowing, etc.       94       00         G. W. Rines, well boring       88       20         Hancock & Regnart, meats       75       05         S. Oberdeener, drugs and medicines       59       15         Dr. A. E. Osborne, Superintendent, contingent expenses       26       60         Pacific Manufacturing Company, lumber       21       03         R. A. Swain & Co., crockery       18       79         A. Clement Kropp, musical supplies       14       40         Mrs. E. A. Yard, frut, etc.       10       94         J. W. Findlay, Trustee, traveling expenses       10       85         J. Cereghino, vegetables and fruits       10       15         Mrs. E. Hillman, poultry       8       50         E. H. Guppy & Son, stationery       5       15         Loftus Bros., engineer supplies       3       30         The Farmers Union, supplies       \$1,159       30         Ant. Fatjo, supplies       183       25         J. B. O'Brien, dry goods, clothing, etc.       152       25	The Farmers Union, supplies	269 09	
G. W. James, provisions  S. Hustache, wood	R Menzell water and plumbing	204 91	
S. Hustache, wood       135 00         John Sallows, plowing, etc.       94 00         G. W. Rines, well boring       88 20         Hancock & Regnart, meats       75 05         S. Oberdeener, drugs and medicines       59 15         Dr. A. E. Osborne, Superintendent, contingent expenses       26 60         Pacific Manufacturing Company, lumber       21 03         R. A. Swain & Co., crockery       18 79         A. Clement Kropp, musical supplies       14 00         Mrs. E. A. Yard, frut, etc.       10 94         J. W. Findlay, Trustee, traveling expenses       10 85         J. Cereghino, vegetables and fruits       10 15         Mrs. E. Hillman, poultry       8 50         E. H. Guppy & Son, stationery       5 15         Loftus Bros., engineer supplies       3 80         Ant. Fatjo, supplies       283 90         Ant. Fatjo, supplies       183 25         J. B. O'Brien, dry goods, clothing, etc.       152 25         G. W. James, provisious       93 03         B. Hicks, shoes and repairs       81 05         Hancock & Regnart, meats       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses       76 67	G. W. James, provisions		
G. W. Rines, well boring	S. Hustache, wood		
G. W. Rines, well boring	John Sallows, plowing, etc.		
Dr. A. E. Osborne, Superintendent, contingent expenses       26         Pacific Manufacturing Company, lumber       21         R. A. Swain & Co., crockery       18         A. Clement Kropp, musical supplies       14         Mrs. E. A. Yard, frut, etc.       10         J. W. Findlay, Trustee, traveling expenses       10         J. Cereghino, vegetables and fruits       10         Mrs. E. Hillman, poultry       8         E. H. Guppy & Son, stationery       5         Loftus Bros., engineer supplies       3         Loftus Bros., engineer supplies       3         The Farmers Union, supplies       \$1,159         Ant. Fatjo, supplies       183         J. B. O'Brien, dry goods, clothing, etc.       152         G. W. James, provisions       93         B. Hicks, shoes and repairs       81         Hancock & Regnart, meats       80         Dr. A. E. Osborne, Superintendent, contingent expenses       76	G. W. Rines, well boring		
Dr. A. E. Osborne, Superintendent, contingent expenses       26         Pacific Manufacturing Company, lumber       21         R. A. Swain & Co., crockery       18         A. Clement Kropp, musical supplies       14         Mrs. E. A. Yard, frut, etc.       10         J. W. Findlay, Trustee, traveling expenses       10         J. Cereghino, vegetables and fruits       10         Mrs. E. Hillman, poultry       8         E. H. Guppy & Son, stationery       5         Loftus Bros., engineer supplies       3         Loftus Bros., engineer supplies       3         The Farmers Union, supplies       \$1,159         Ant. Fatjo, supplies       183         J. B. O'Brien, dry goods, clothing, etc.       152         G. W. James, provisions       93         B. Hicks, shoes and repairs       81         Hancock & Regnart, meats       80         Dr. A. E. Osborne, Superintendent, contingent expenses       76	Hancock & Kegnart, meats		
Pacific Manufacturing Company, lumber       21 03         R. A. Swain & Co., crockery       18 79         A. Clement Kropp, musical supplies       14 00         Mrs. E. A. Yard, fruit, etc.       10 94         J. W. Findlay, Trustee, traveling expenses       10 85         J. Cereghino, vegetables and fruits       10 15         Mrs. E. Hillman, poultry       8 50         E. H. Guppy & Son, stationery       5 15         Loftus Bros., engineer supplies       3 80         The Farmers Union, supplies       \$1,159 00         Ant. Fatjo, supplies       183 25         J. B. O'Brien, dry goods, clothing, etc.       152 25         G. W. James, provisious       93 03         B. Hicks, shoes and repairs       81 05         Hancock & Regnart, meats       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses       76 67	Dr A E Osborne Superintendent contingent expenses		
R. A. Swain & Co., crockery       18 79         A. Clement Kropp, musical supplies       14 00         Mrs. E. A. Yard, fruit, etc.       10 94         J. W. Findlay, Trustee, traveling expenses       10 85         J. Cereghino, vegetables and fruits       10 15         Mrs. E. Hillman, poultry       8 50         E. H. Guppy & Son, stationery       5 15         Loftus Bros., engineer supplies       3 80         \$2,936 22         1890—January 27—Payroll for the month of December, 1889, salaries       \$1,159 00         The Farmers Union, supplies       263 90         Ant. Fatjo, supplies       183 25         J. B. O'Brien, dry goods, clothing, etc.       152 25         G. W. James, provisions       93 03         B. Hicks, shoes and repairs       81 05         Hancock & Regnart, meats       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses       76 67	Pacific Manufacturing Company, lumber	21 03	
10 15   15   15   15   15   15   15	R. A. Swain & Co., crockery	18 79	
10 15   15   15   15   15   15   15	A. Clement Kropp, musical supplies	14 00	
10 15   15   15   15   15   15   15	Mrs. E. A. Yard, fruit, etc.	10 94	
Mrs. E. Hillman, poultry.       8 50         E. H. Guppy & Son, stationery.       5 15         Loftus Bros., engineer supplies.       3 80         1890—January 27—Payroll for the month of December, 1889, salaries.       \$1,159 00         The Farmers Union, supplies.       263 90         Ant. Fatjo, supplies.       183 25         J. B. O'Brien, dry goods, clothing, etc.       152 25         G. W. James, provisious.       93 03         B. Hicks, shoes and repairs.       81 05         Hancock & Regnart, meats.       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses.       76 67	J. W. Findlay, Trustee, traveling expenses	10 80	
Loftus Bros., engineer supplies	Mrs F Hillman noultry		
Loftus Bros., engineer supplies	E. H. Guppy & Son, stationery.		
\$2,938 22  1890—January 27—Payroll for the month of December, 1889, salaries . \$1,159 00  The Farmers Union, supplies	Loftus Bros., engineer supplies		
The Farmers Union, supplies       263 90         Ant. Fatjo, supplies       183 25         J. B. O'Brien, dry goods, clothing, etc.       152 25         G. W. James, provisious       93 03         B. Hicks, shoes and repairs       81 05         Hancock & Regnart, meats       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses       76 67		A1 150 00	<b>\$2,936</b> 22
Ant. Fatjo, supplies 183 25  J. B. O'Brien, dry goods, clothing, etc. 152 25  G. W. James, provisions 93 03  B. Hicks, shoes and repairs 81 05  Hancock & Regnart, meats 80 85  Dr. A. E. Osborne, Superintendent, contingent expenses 76 67	1890—January 27—Payroll for the month of December, 1889, salaries.		
J. B. O'Brien, dry goods, clothing, etc.       152 25         G. W. James, provisions       93 03         B. Hicks, shoes and repairs       81 05         Hancock & Regnart, meats       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses       76 67	Ant Fatio supplies		
G. W. James, provisious       93 03         B. Hicks, shoes and repairs       81 05         Hancock & Regnart, meats       80 85         Dr. A. E. Osborne, Superintendent, contingent expenses       76 67	J. B. O'Brien, dry goods clothing etc.		
B. Hicks, shoes and repairs	G. W. James, provisious		
Hancock & Regnart, meats 80 85 Dr. A. E. Osborne, Superintendent, contingent expenses 76 67	B. Hicks, shoes and repairs.	81 <b>0</b> 5	
Dr. A. E. Osborne, Superintendent, contingent expenses 76 67	Hancock & Regnart, meats		
r. Menzen, kitchen and plumbers supplies 60 13	Dr. A. E. Osborne, Superintendent, contingent expenses.		
	iv. Menzen, kitchen and plumbers supplies	00 T2	

American Steam Boiler Insurance Company, insurance Peter Hughes, dried fruit William Harney, Trustee, traveling expenses S. Oberdeener, drugs and medicines Seymour J. Fisher, carpenter work, etc. Pacific Manufacturing Company, lumber "San José Times," advertising supplies Pulsometer Steam Pump Company, pump castings Julia M. Judah, Trustee, traveling expenses Katherine B. Lathrop, Trustee, traveling expenses S. M. Stearns, eggs, etc. Geo. W. Gibbs, Trustee, traveling expenses E. H. Guppy & Son, stationery. Chas. A. Murdock, Trustee, traveling expenses T. E. Gallup, dental services San José Agricultural Works, repairs to cart Geo. B. McKee & Co., paints and brushes	16 00 14 74 14 00 12 80 12 40 10 50 9 10 6 40 6 00 6 00 1 55	\$2, <b>41</b> 5 87
1890-February 17-Payroll for the month of January, salaries	<b>\$1,105 60</b>	φ2,110 01
J. B. O'Brien, dry goods and clothing	$11798 \\ 22156$	
Farmers Union, supplies	189 04	
Ant. Fatjo, supplies G. W. James, provisions	133 65	
G. W. James, provisions	106 98 81 95	
Hancock & Regnart, meats A. E. Osborne, M.D., Superintendent, contingent expenses.	58 65	
S. Hustache, woodS. Oberdeener, drugs and medicines	58 38	
S. Oberdeener, drugs and medicines Thos. Bullock, milk	48 40 47 34	
J. P. Norton, cow	45 00	
S. M. Stearns, eggs J. Cereghino, vegetables and fruit	21 60	
A. Withrow, repairs to harness, etc.	18 15 7 <b>4</b> 5	
S. Foster & Co., supplies	4 75	
S. Foster & Co., supplies The Bancroft Company, school supplies Cunningham, Curtiss & Welch, stationery and supplies	2 40	
E. G. Guppy & Son, stationery and supplies	30 34 1 28	
		\$2,300 50
1890—March 29—Payroll for the month of February, salaries	\$1,104 21 249 82	
Farmers Union, supplies  John Rosenfelds Sons, fuel	244 85	
Ant. Fatjo, supplies	142 43	
J. B. O'Brien, dry goods, etc	102 24 80 65	
d. w. James, provisions		
Hancock & Regnart, meats	74 35	
Hancock & Regnart, meats Board of Trustees, freight on coal	74 35 63 31	
Hancock & Regnart, meats  Board of Trustees, freight on coal  Thos. Bullock, milk	74 35 63 31 62 34	
Hancock & Regnart, meats  Board of Trustees, freight on coal  Thos. Bullock, milk  S. Hustache, wood  R. Menzell, plumbing and supplies	74 35 63 31 62 34 55 25 54 11	
Hancock & Regnart, meats  Board of Trustees, freight on coal  Thos. Bullock, milk  S. Hustache, wood  R. Menzell, plumbing and supplies	74 35 63 31 62 34 55 25 54 11	
Hancock & Regnart, meats  Board of Trustees, freight on coal  Thos. Bullock, milk  S. Hustache, wood  R. Menzell, plumbing and supplies	74 35 63 31 62 34 55 25 54 11	
Hancock & Regnart, meats  Board of Trustees, freight on coal.  Thos. Bullock, milk.  8. Hustache, wood.  R. Menzell, plumbing and supplies.  B. Hicks, shoes and repairing.  Dr. A. E. Osborne, Superintendent, contingent expenses.  John Sallows, fuel.  S. Oberdeener, drugs and medicines.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22	
Hancock & Regnart, meats  Board of Trustees, freight on coal.  Thos. Bullock, milk.  S. Hustache, wood. R. Menzell, plumbing and supplies. B. Hicks, shoes and repairing. Dr. A. E. Osborne, Superintendent, contingent expenses. John Sallows, fuel. S. Oberdeener, drugs and medicines. Mrs. E. A. Yard. dried fruit.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk S. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49 18 00	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk S. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49 18 00	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk. S. Hustache, wood R. Menzell, plumbing and supplies. B. Hicks, shoes and repairing. Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel. S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies. S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 88 22 22 18 49 18 00 14 30 19 36	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk. S. Hustache, wood. R. Menzell, plumbing and supplies. B. Hicks, shoes and repairing. Dr. A. E. Osborne, Superintendent, contingent expenses. John Sallows, fuel. S. Oberdeener, drugs and medicines. Mrs. E. A. Yard, dried fruit. S. Foster & Co., supplies. S. M. Stearns, eggs, etc. J. Cereghino, vegetables. Pacific Manufacturing Company, lumber. M. J. Stafford, newspapers. J. C. Plummer, fuel.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 28 29 18 49 18 00 14 30 9 36 7 00 6 94	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk. S. Hustache, wood R. Menzell, plumbing and supplies. B. Hicks, shoes and repairing. Dr. A. E. Osborne, Superintendent, contingent expenses. John Sallows, fuel. S. Oberdeener, drugs and medicines. Mrs. E. A. Yard, dried fruit. S. Foster & Co., supplies. S. M. Stearns, eggs, etc. J. Cereghino, vegetables. Pacific Manufacturing Company, lumber. M. J. Stafford, newspapers. J. C. Plummer, fuel. H. A. Pfister, supplies.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 88 22 22 18 49 18 00 14 30 9 36 7 00 6 94 6 60	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk. S. Hustache, wood R. Menzell, plumbing and supplies. B. Hicks, shoes and repairing. Dr. A. E. Osborne, Superintendent, contingent expenses. John Sallows, fuel. S. Oberdeener, drugs and medicines. Mrs. E. A. Yard, dried fruit. S. Foster & Co., supplies. S. M. Stearns, eggs, etc. J. Cereghino, vegetables. Pacific Manufacturing Company, lumber. M. J. Stafford, newspapers. J. C. Plummer, fuel. H. A. Pfister, supplies.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 88 22 22 18 49 18 00 14 30 9 36 7 00 6 94 6 60	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk. S. Hustache, wood. R. Menzell, plumbing and supplies. B. Hicks, shoes and repairing. Dr. A. E. Osborne, Superintendent, contingent expenses. John Sallows, fuel. S. Oberdeener, drugs and medicines. Mrs. E. A. Yard, dried fruit. S. Foster & Co., supplies. S. M. Stearns, eggs, etc. J. Cereghino, vegetables. Pacific Manufacturing Company, lumber. M. J. Stafford, newspapers. J. C. Plummer, fuel.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49 18 00 14 3 40 6 60 5 55 50 4 00	
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk.  8. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 28 49 18 00 13 40 9 36 7 00 6 94 6 60 5 55 5 00 4 00	\$2,470 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk.  8. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel. H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 218 49 18 00 9 36 7 00 4 00 5 5 5 5 00 4 00 \$\$1,021 33\$	\$2,470 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk.  8. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light  1890—April 17—Payroll for the month of March, salaries Farmers Union, supplies Dr. A. E. Osborne, Superintendent, contingent expenses	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 88 22 22 18 49 18 00 14 30 9 36 7 00 6 94 6 60 5 55 5 00 4 00 \$\$1,021 33 248 35 111 95	\$2,470 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk.  S. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford. newspapers J. C. Plummer, fuel H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.  1890—April 17—Payroll for the month of March, salaries Farmers Union, supplies Dr. A. E. Osborne, Superintendent, contingent expenses Ant. Fatjo, supplies G. W. James, provisions	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 22 22 22 22 22 22 22 22 22 22 22	\$2, <del>4</del> 70 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk. S. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel. H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.  1890—April 17—Payroll for the month of March, salaries Farmers Union, supplies Dr. A. E. Osborne, Superintendent, contingent expenses Ant. Fatjo, supplies. G. W. James, provisions J. B. O'Brien, dry goods, etc.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 218 49 18 00 9 36 6 94 6 60 0 5 55 5 00 4 00 \$1,021 33 248 15 111 95 93 75 82 06 48 09	\$2,470 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, mik.  8. Hystache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.  1890—April 17—Payroll for the month of March, salaries Farmers Union, supplies Dr. A. E. Osborne, Superintendent, contingent expenses Ant. Fatjo, supplies G. W. James, provisions. J. B. O'Brien, dry goods, etc. S. Oberdeener, drugs and medicines	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49 18 00 13 40 9 36 6 60 5 55 5 50 4 00 \$\$1,021 33 248 15 111 32 26 38 75 82 06 48 02 7 15	\$2,470 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, milk.  8. Hustache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel. S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel. H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.  1890—April 17—Payroll for the month of March, salaries Farmers Union, supplies Dr. A. E. Osborne, Superintendent, contingent expenses Ant. Fatjo, supplies G. W. James, provisions J. B. O'Brien, dry goods, etc. S. Oberdeener, drugs and medicines J. Cereghino, vegetables S. M. Stearns, eggs, etc.	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49 18 00 9 36 6 60 5 5 50 00 4 00 \$\$1,021 33 248 15 111 95 82 66 48 69 27 15 22 50 90	\$2,470 70
Hancock & Regnart, meats Board of Trustees, freight on coal. Thos. Bullock, mik.  8. Hystache, wood R. Menzell, plumbing and supplies B. Hicks, shoes and repairing Dr. A. E. Osborne, Superintendent, contingent expenses John Sallows, fuel S. Oberdeener, drugs and medicines Mrs. E. A. Yard, dried fruit S. Foster & Co., supplies S. M. Stearns, eggs, etc. J. Cereghino, vegetables Pacific Manufacturing Company, lumber M. J. Stafford, newspapers J. C. Plummer, fuel H. A. Pfister, supplies Jno. A. Nace, stationery T. E. Gallup, dental services W. F. Wilson, light.  1890—April 17—Payroll for the month of March, salaries Farmers Union, supplies Dr. A. E. Osborne, Superintendent, contingent expenses Ant. Fatjo, supplies G. W. James, provisions. J. B. O'Brien, dry goods, etc. S. Oberdeener, drugs and medicines	74 35 63 31 62 34 55 25 54 11 44 35 34 10 27 83 22 22 18 49 18 00 9 36 6 60 5 5 50 00 4 00 \$\$1,021 33 248 15 111 95 82 66 48 69 27 15 22 50 90	\$2,470 70

E. H. Guppy & Son, stationery	<b>\$</b> 3 <b>25</b>	
R. A. Swain & Co., crockery	2 88	
Maurice O'Brien, candy	2 50	
Hancock & Regnart, meats	78 20	1 700 64
1900 May 16 Payroll for the month of April calaries	\$954 11	1,790 64
1890—May 16—Payroll for the month of April, salaries	262 14	
John Sallows, farm work	118 12	
Farmers Union, supplies  John Sallows, farm work  Dr. A. E. Osborne, Superintendent, contingent expenses	79 43	
R. Menzell, plumbing and plumbers' supplies	78 <b>26</b>	
Geo. W. James, provisions	75 65	
Ant. Fatjo, supplies	73 90	
Hancock & Regnart, meats	69 60	
J. B. O'Brien, dry goods, etc. S. Oberdeener, drugs and medicines	65 98 52 86	
B. Hicks, shoes and repairing	49 65	
William Fleury, undertaker	25 00	
S. M. Stearns, eggs, etc.	16 50	
J. Cereghino, vegetables	15 80	
W. E. Wadams, veterinary services Pacific Manufacturing Company, lumber, etc.	14 00	
Pacific Manufacturing Company, lumber, etc.	11 86	
Geo. B. McKee & Co., paint, etc.	7 10	
T. E. Gallup, dental services	6 50 5 50	
Mrs. E. A. Yard, eggs, etc.	5 50 5 10	
E. H. Guppy & Son, stationery Osborn & Alexander, school supplies	2 50	
Osborn & Alexander, school supplies		1.989 56
1890-June 23-Payroll for the month of May, salaries	\$981 85	
Farmers Union, supplies	211 85	
Ant. Fatio, supplies	135 00	
G. C. Jenkins, agent, insurance	109 44	
J. B. O'Brien, dry goods, etc.	77 61	
G. W. James, provisions	62 30 60 00	
Scurr & Hetherington, wood	55 00	
I. N. Thompson, pasturage	39 95	*
S. Oberdeener, drugs and medicines	37 13	
Dr. A. E. Osborne, Superintendent, contingent expenses	35 45	
R. J. Langford, pasturage	29 00	
S. M. Stearns, eggs, etc.	23 05	
wm. Fleury, undertaker	20 00	
J. Cereghino, vegetables	17 05	
Pacific Manufacturing Company, lumber	14 50	
Geo. B. McKee & Co., paints, etc. Theo. Messinger, hair cutting	8 50 7 20	
S Foster & Co. supplies	8 25	
S. Foster & Co., supplies Edward Myall, poultry	6 00	
Mrs. E. A. Yard, eggs	3 85	
- The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the		.,942 98
1890—July 23—Payroll for the month of June, salaries	\$931 22	
The Farmers Union, supplies	190 62 114 98	
John A. Day, blacksmithing and repairs	114 50	•
Ant. Fatjo, supplies	104 65	
John Sallows, farm labor	89 20	
G. W. James, provisions	83 06	
B. Hicks, shoes and repairs	70 50	
Dr. A. E. Osborne, Superintendent, contingent expenses	61 10	
Hancock & Regnart, meats Priames & Madden, kalsomining, etc	54 35	
P Mangalt plumbare' emplies and repairs	47 50 39 17	
R. Menzell, plumbers' supplies and repairs	35 10	
Mrs. Katherine B. Lathrop, Trustee, traveling expenses San Francisco "Chronicle," advertising supplies T. Klinkerfushc, repairs to boiler furnace	30 40	
T. Klinkerfushc, repairs to boiler furnace	30 00	
Mrs. Julia M. Judah, Trustee, traveling expenses	27 50	
S. Oberdeener, drugs and medicines	21 52	
Santa Clara "Journal," advertising supplies and printing	21 25	
W. T. Garratt & Co., castings for boiler furnace	18 20	
	18 00 17 70	
E. J. Baker, coal	17 67	
S. M. Stearns, fruit and eggs "Sonoma Democrat" Publishing Company, advertising sup-	71 01	
plies	15 00	
Osborn & Alexander, machinist supplies	13 <b>20</b>	
pliesOsborn & Alexander, machinist supplies	11 90	
J. Cereghino, vegetables	11 50	

•	
T. M. Danier Present community	011 EA
J. M. Raney, livery expenses.	\$11 50
A. A. Withrow, harness repairs, etc. Geo. W. Gibbs, Trustee, traveling expenses	. 10 25
Geo. W. Gibbs. Trustee, traveling expenses	8 70
H A Phater lime salt etc	6 15
H. Agnews, poultry M. J. Stafford, newspapers	6 00
ii. Aginews, poutry	. 500
M. J. Stanord, newspapers	5 60
Geo. B. McKee & Co., paper hangings	. 400
Mrs. E. A. Yard, eggs	3 58
R. A. Swain & Co., crockery	2 22
10. 11. Swall to 001, 0100001, 111111111111111111111111	<b>32,248 44</b>
	<del></del>
	\$30,374 21
	400,011 22
	•
SCHEDULE D.	
PAYMENTS MADE FROM THE STATE APPROPRIATION FOR MAINTENANCE ELLEN) DURING THE FORTY-FIRST FISCAL YEAR, ENDING JU	
1890-February 17-Payroll for the month of January, salaries	\$150 00
J. B. O'Brien, dry goods, etc.	
I To Kaarney good for planting	52 10
J. E. Kearney, seed for planting Woodin & Little, agricultural implements	43 70
woodin & Little, agricultural implements	43 70
Cunningham, Curtiss & Welch, stationery	9 40
Woodly Maslin, traveling and contingent expenses	33 15
R. J. Dowdall, seed grain for planting	. 20 00
Chas. Pifaro, labor	10 94
Chas. Pifaro, labor Burt Megroni, labor	10 94
C. O. Borman, material for fencing	10 85
F U Cupry & Son stationery	4 47
E. H. Guppy & Son, stationery	
Dewey & Co., stationery	5 UU
The Bancroft Company, stationery	2 95
C. A. Wright & Co., stationery	1 55 ,
•	<b>\$530 65</b>
1890—April 1—M. Broughler, pruning trees	
Bantista Madonna pruning vines	
Baptista Madonna, pruning vines	130 00
Q V Coops purpling troop	100 00
S. V. Cooper, pruning trees	01 70
Justinian Caire & Co., spraying material	91 78
Woodly Maslin, salary and contingent expenses	87 00
Chas. H. Crofoot, boarding men, etc.	73 <b>29</b>
John H. Hill, labor with teams	34 00
Edward Townsend, labor	21 57
Geo. Riley, labor	16 00
Wm. A. Elsdon, labor	
Angello Palleti, labor	
Date Callin laken	12 00
Robt. Collin, labor	
Maurice O'Flanagan, labor	9 00
Pietro Daldos, labor	9 00
T. J. Sullivan, blacksmithing, etc.	6 50
J. W. Bagge, labor	4 00
Frank Hendley, labor	4 00
Frank Hendley, labor	3 00
Peter Brancina, labor	3 00
Peter Brancina, laborAugust DeCarle, labor	3 00
John Brancina, labor	3 00
Chas I Danna labor	2 75
Chas. J. Poppe, labor.	
Jas. A. Box, plowing and seeding fifty acresRobt. P. Hill, salary and contingent expenses	187 50
Robt. P. Hill, salary and contingent expenses	80 15
Bartholomew Megroni, labor	29 62
Chas. Pifaro, labor	28 13
W. McPherson Hill, wire for fencing	14 87
John H. Hill, hauling gravel	8 00
C. O. Borman, hardware supplies	5 70
·	
1890-April 19-Payroll for the month of March, salaries and wages	4-,
-fruit department	<b>\$</b> 399 65
-fruit department	
anitarel denorment	162 25
cultural department	102 20 050 12
M. Brougnier, pruning	252 16
s. v. Cooper, pruning	150 00
R. J. Dowdall, plowing orchard	130 00
James A. Box, plowing vineyard	120 00
M. Broughler, pruning S. V. Cooper, pruning R. J. Dowdall, plowing orchard James A. Box, plowing vineyard Chas. H. Crofoot, board of men	103 33
Mrs. E. Overton, board of men	10 00
· · · · · · · · · · · · · · · · · · ·	,

C. O. Borman, supplies	<b>\$8 64</b>	
A. Harrison, board of man	7 00	
C. J. Poppe, supplies Geo. Hood & Son, supplies	2 60 2 50	
-		\$1,348 13
1890—May 17—Payroll for the month of April, salaries and wages—	AEME 10	
fruit department. Payroll for the month of April, salaries and wages—agri-	\$575 13	
cultural department	193 25	
cultural department		
noid department	60 00	
R. J. Dowdall, plowing orchard James A. Box, plowing	227 50 200 00	
E. C. Zane, plowing	195 00	
W. W. Ellis, grafting	141 45	
W. W. Ellis, grafting S. V. Cooper, pruning S. Oberdeener, drugs and medicines	89 80	
Huntington-Hopkins Company, supplies	39 55 32 50	
Justinian Caire & Co., Paris green	18 50	
Chas. J. Poppe, supplies	10 11	
N. E. Dowdall, supplies	9 97	
S. Foster & Co., supplies Osborn & Alexander, supplies	7 50 4 50	
Geo. Allemann, eggs	3 04	
C. J. Poppe, supplies	2 70	
C. J. Poppe, supplies Chas. H. Crofoot, boarding	2 50	
H. Castaginacco, vegetables	2 55 2 25	
Hayes & Kopf, lime G. W. Beatty, meats	31 65	
-		\$1,849 25
1890-June 28-Payroll for the month of May, salaries and wages-		
fruit department Payroll for the month of May, salaries and wages—agricult- ural department Payroll for the month of May, salaries and wages—house-	<b>\$365 25</b>	
rayroll for the month of May, salaries and wages—agricult-	175 50	
Payroll for the month of May, salaries and wages—house-	1.0 00	
noid department	84 50	
W. McP. Hill, supplies	228 33	
Pacific Improvement Company, horses, wagon, and harness. E. C. Zane, plowing and labor, vineyard	220 00 116 60	
R. J. Dowdall, plowing orchard and vineyard	90 09	
William Green, lumber, etc.	62 13	
William Green, lumber, etc	61 97	
Southern Pacific Railroad, freight	60 00 58 86	
Board of Trustees, contingent expenses	52 95	
Huntington-Hopkins Company, supplies	51 31	
E. W. Hilgard, vine cuttings	38 50	
Jno. H. Hill, labor and team	36 40 36 00	
Thos. Ellis, mowing and raking hay Geo. W. Beatty, meats	27 00	
Hayes & Kopf, poultry	20 25	
M. O. Hanagan, labor	14 00	
Frank Hendley, labor	12 00 11 50	
Edward Townsend, labor Whittier, Fuller & Co., rubber paint	9 15	
Kate McCarthy, house servant	6 25	
Mrs. Diebold, laundress W. W. Montague & Co., supplies	6 00	
W. W. Montague & Co., supplies	4 73 4 50	
Wm. Schmidt, blacksmithing H. Castaginacco, vegetables	4 05	
Robt. P. Hill, contingent expenses	3 20	
J. G. Marcy, repairs Woodly Maslin, contingent expenses John H. Hill, teaming	3 00	
woodly Mashn, contingent expenses	2 60 2 40	
J. M. Ronev. ice. etc.	2 00	
J. M. Roney, ice, etc. Woodin & Little, supplies	1 54	
Geo. Brietenback, repairs	1 25	
Bert. Wilson, washing	1 10	
M. Laloli, washing	60	\$1,875 51
1890—May 1—S. Foster & Co., supplies		173 82
1890—May 1—S. Foster & Co., supplies	\$225 00	
Payroll for June, salaries and wages—agricultural depart-	170 50	
ment Payroll for June, salaries and wages—household depart-	172 50	
ment	60 00	

George Riley, cultivating vineyard and orchard	\$91 88
orchard	88 85
orchardS. Foster & Co., supplies	<b>51</b> 86
J. H. Hill, horse (\$50) and labor (\$5 30)	<i>55 3</i> 0
J. H. Hill, horse (\$50) and labor (\$5 30).  Thos. Ellis, mowing and raking	50 00
J. V. Minor, carpentering	38 50
J. V. Minor, carpentering San Francisco and North Pacific Railway Company, freight.	33 30
Geo. W. Beatty, meats	30 10
Brown & Wells, potatoes	29 95
W. McPherson Hill, supplies	22 62
Osborn & Alexander, hardware	22 50
Woodly Maslin, contingent expenses, May and June	40 20
M. Broughler, cuttings and pruning	19 50
Redington & Co., sulphur, etc.	15 69
T. M. Danes in	10 90
J. M. Roney, ice "Sonoma Democrat" Publishing Company, printing	
Sonoma Democrat: Fublishing Company, printing	6 50
J. Caire & Co., supplies	6 28
whittier, Fuller & Co., paints	5 75
H. Castaginacco, vegetables	5 00
William Green, lumber	4 91
Sam'l J. Kingston, stencil and alphabet	4 00
Thomas Meherin, seeds	4 00
William Schmidt, blacksmithing	3 75
John Staley, blacksmithing	2 00
Charles McHarvey, blacksmithing.	2 00

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

\$1,102 84

\$8,344 24

#### SCHEDULE E.

PAYMENTS MADE FROM THE STATE APPROPRIATION FOR A "PERMANENT SITE AND TO ERECT BUILDINGS THEREON," DURING THE FORTY-FIRST FISCAL YEAR, ENDING JUNE 30, 1890.

1889—October 3—San Francisco "Bulletin" Company, advertising for	
a site	\$12 00
San Francisco "Chronicle," advertising for a site	16 80
San Francisco "Call" Company, advertising for a site	12 00
San José "Morning Times," advertising for a site	8 00
Sacramento Publishing Company, advertising for a site	16 00
"Tribune" Publishing Company, advertising for a site	8 00
Cunningham, Curtiss & Welch, stationery supplies for Com-	
mission	15 60
San Francisco "News Letter," advertising for a site	4 00
The "Argonaut" Company, advertising for a site	4 00
The "Morning Times," advertising for a site	5 25
"Evening Post" Publishing Company, advertising for a site.	5 00
The "Examiner," advertising for a site	12 00
S. F. Barstow (Marin "Journal"), advertising for a site	3 00
Mrs. Katherine B. Lathrop, President of Commissioners,	7 75
expenses incurred visiting site	1 19
Geo. W. Gibos, Commissioner, expenses incurred visiting	7 65
site  Oliver Eldridge, Commissioner, expenses incurred visiting	1 00
site	7 65
J. W. Findlay, Commissioner, expenses incurred visiting	,
site	8 75
site William Harney, Commissioner, expenses incurred visiting	
site	7 65
Mrs. J. M. Judah, Commissioner, expenses incurred visit-	
ing site B. F. LeWarne, Secretary Commissioners, expenses incurred	5 00
B. F. Le Warne, Secretary Commissioners, expenses incurred	<b>7</b> 05
visiting site	7 65
B. F. Lewarne, Secretary Commissioners, salary for the	75 00
month of April  B. F. LeWarne, Secretary Commissioners, expenses for post-	10 00
ore etc	1 80
age, etc.  Mrs. Katherine B. Lathrop, President of Commissioners,	100
expenses incurred visiting site	9 30
expenses incurred visiting site	
ing site	5 80

Geo. W. Gibbs, Commissioner, expenses incurred in visiting site	<b>\$9 30</b>	
Charles A. Murdock, Commissioner, expenses incurred in	12 55	
visiting site.  Jas. W. Findlay, Commissioner, expenses incurred visiting	29 00	
site Oliver Eldridge, Commissioner, expenses incurred visiting		
site Mrs. J. M. Judah, Commissioner, expenses incurred visiting	12 55	
site B. F. LeWarne, Secretary Commissioners, expenses incurred	17 90	
visiting site	12 55	
month of May	75 00	
expenses incurred visiting site	10 50	
site Mrs. J. M. Judah, Commissioner, expenses incurred visiting	10 80	
siteChas. A. Murdock, Commissioner, expenses incurred visit-	11 45	
ing site William Harney, Commissioner, expenses incurred visiting	10 40	
site	11 50	
site	9 60	
Oliver Eldridge, Commissioner, expenses incurred visiting site	6 50	
<ul> <li>B. F. LeWarne, Secretary Commissioners, incidental expenses, postage, etc.</li> <li>B. F. LeWarne, Secretary Commissioners, salary for the</li> </ul>	3 70	
month of June	75 00	
B. F. LeWarne, Secretary Commissioners, expenses incurred visiting site	13 20	
visiting site  Chas. A. Murdock, Commissioner, expenses incurred visit- ing site	7 65	
ing site  B. F. LeWarne, Secretary Commissioners, incidental expenses for month of May	4 30	
Allen B. Lemmon, Santa Rosa "Republican," advertising for a site	2 25	
		<b>\$</b> 611 35
1889—October 24—Mrs. Katherine B. Lathrop, President of Commission, expenses incurred visiting sites	<b>\$6 95</b>	
Mrs. J. M. Judah, Commissioner, expenses incurred visiting sites	9 95	
Oliver Eldridge, Commissioner, expenses incurred visiting	13 05	
Geo. W. Gibbs, Commissioner, expenses incurred visiting	33 25	
Chas. A. Murdock, Commissioner, expenses incurred visiting sites	13 95	
Jas. W. Findlay, Commissioner, expenses incurred visiting	25 40	
B. F. LeWarne, Secretary Commissioners, expenses incurred visiting sites	18 90	
William Harney, Commissioner, expenses incurred visiting sites	33 25	
"Mercury" Printing and Publishing Company, San José, advertising for site	12 50	
1889—November 27—Board of Trustees, California Home Feeble-		<b>\$167 20</b>
Minded Children, costs of Court, Board of Trustees vs. J. P. Dunn, Controller		25 00
December 5—Purchase money for the Hill Ranch (Glen Ellen) 1890—January 28—William Smith, expert opening quarry, etc		50,000 00 30 00
February 22—J. A. Barham, attorney fees (road case)		52 00
Children, express charges on \$50,000 coin for site Haggin, Van Ness & Dibble, attorney fees, Board of Trustees	<b>\$</b> 37 50	
vs. J. P. Dunn, Controller	1,052 70	1,090 20
May 3—Barclay Henley, attorney fees, J. Chauvet vs. W. McP June 30—Copeland & Peirce, architects, plans and specifica-	. Hill	18 25
tions Sacramento Publishing Company, advertising contract for	\$1,900 00	
building	30 00	

TO ORDITORNIA HOME FOR FEBRUE MINDED CHIED.		
San Francisco "Chronicle," advertising contract for build-		
	\$29 60	
"The Examiner" of San Francisco, advertising contract for building	25 00	** *** ***
•		\$1,984 60
		\$53,978 60
SCHEDULE F.		
PAYMENTS MADE FROM THE STATE APPROPRIATION FOR "FURNISHI	NG'' AT ]	HITTAIRT
DURING THE FORTY-FIRST FISCAL YEAR, ENDING JUNE 3	0, 1890.	iiibbaini,
1890-April 17-J. B. O'Brien, mattresses, pillows, and blankets	\$436 20	
R. A. Swain & Co., crockery, etc. R. A. Swain & Co., crockery, etc.	139 52 26 55	•
Miss Lida L. Hill, carpets, wardrobes, etc.	183 00	
W. A. Schrock, iron bedsteads	132 00	801 F 0F
1890—May 3—California Furniture Mfg. Co., house furniture	\$1 064 40	\$917 27
Wakefield Rattan Company, cane furniture	121 45	
W. W. Montague & Co., kitchenware	54 87	
O'Connor, Moffatt & Co., table linen Macondray & Co., matting	42 35 16 00	
R. A. Swain & Co., crockery	9 90	
R. A. Swain & Co., crockery Osborn & Alexander, houseware	17 97	** ***
1890—May 16—Huntington-Hopkins Company, working utensils	\$133 67	<b>\$1,326</b> 92
W. J. Sloane & Co., carpets, rugs, etc.	92 93	
J. B. O'Brien, blankets, etc	54 50	
W. W. Montague & Co., dairy and kitchen utensils	52 10	
W. T. Garratt & Co., institution bell	17 82 16 00	
Revere Rubber Company, hose	14 50	
W. C. Good & Co., working utensils	13 75	
Macondray & Co., matting	8 00	
Wiester & Co., parlor stove Market-Street Trunk Store, mail bag	5 50 5 50	
·	400 70	<b>\$414</b> 27
1890—June—W. W. Montague & Co., kitchen utensils	\$63 56 54 00	
Huntington-Hopkins Company, tools, etc.	39 45	
Samuel Beal, hair bolsters	21 00	
Davis Brothers, houseware	10 26	
B. & J. S. Doe, screens	7 60	\$195 87
1890-June 30-J. B. O'Brien, mattresses, pillows, and blankets	\$150 30	ф100 Q1
W. A. Schrock, iron bedsteads	84 00	
Holbrook, Merrill & Stetson, bath	44 00	
R. A. Swain & Co., crockery  Holbrook, Merrill & Stetson, furniture	36 24 21 88	
O'Connor. Moffatt & Co., quilts and spreads	21 40	
Davis Brothers, mirror, etc.	15 80	
Robert P. Hill, hay buck	10 25	
John H. Hill, beehive	4 50	\$388 37
	-	\$3,242 70
SCHEDULE G.		
PAYMENTS MADE FROM THE STATE APPROPRIATION "TO PROVIDE A	Sverew o	r Warre
Supply and Sewerage, and to Improve the Grounds," During Fiscal Year, Ending June 30, 1890.	THE FO	TY-FIRST
1890-May 16-San Francisco Sewer Pipe Company, sewer pipe and		
cement	\$91 28	
J. V. Minor, cement and carpenter work	20 50	<b>@111</b> 70
1890—July—J. V. Minor, sewer work and plumbing		\$111 78 17 50
Total		\$129 28

CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN.

# SCHEDULE H. CLASSIFIED EXPENDITURES DURING THE FORTY-FIRST FISCAL YEAR.

On Account of Maintenance at Santa Clara.	LI LIMI
•	<b>#1</b> 000 49
1890—June 30—For bakery (equipment and altering building)  For clothing	244 40
For crockery For dry goods, etc. For express and freight For expense account, i.e., lumber, repairs, blacks mithing, etc. For farm account For feed for stock	63 18
For dry goods, etc.	858 64
For express and freight	116 46
For expense account, i.e., lumber, repairs, blacksmithing, etc.	1,012 49 542 16
For feed for stock	516 13
For fish and poultry  For fuel (coal and wood)	516 13 90 25
For fuel (coal and wood)	2,250 00
For furniture	351 87
For groceries, etc. For hardware For insurance	3,752 05 28 25
For insurance	146 94
For iceFor kitchen and woodenware	147 57
For kitchen and woodenware	95 47
For light  For meats and provisions  For medicines and attendance  For postage, box rent, and stamps  For shoes and repairing	638 96 383 86
For meats and provisions	1.772 75
For medicines and attendance	1,772 75 607 12
For postage, box rent, and stamps	95 17 321 30
For shoes and repairing	321 30
For sewerage and drainage (cleaning cesspools)	200 00 100 00
For salaries and wages	13,476 34
For stationery	120 40
For telegraph and delivery	40 15
For traveling expenses	397 40 645 94
For shoes and repairing  For stock (live).  For sewerage and drainage (cleaning cesspools).  For salaries and wages  For stationery  For telegraph and delivery  For traveling expenses  For vegetables  For water (boring and equipping new well)	258 63
2 or word (borned man od arbbrid non won)	
On Account of Maintenance at Hillgirt (as Segregated)	) <b>.</b>
Account of fruit and horticultural department	\$5.269 85
Account of agricultural department.	1.762 95
Account of household department	1,046 81
Account of general expenses	264 63 
Account of Selection of Site and Erection of Buildings (as Seg	• •
Account of site (the W. McPherson Hill Ranch, Hillgirt)	\$50,000,00
Account of advertising for site	136 40
Account of salary (Secretary of Commission)	225 00
Account of traveling expenses of Commission and Secretary	407 35 77 30
Account of legal expenses in suit Trustees we Controller	1,147 95
Account of advertising for site  Account of salary (Secretary of Commission)  Account of traveling expenses of Commission and Secretary  Account of expenses (stationery, postage, etc.)  Account of legal expenses in suit, Trustees vs. Controller  Account of advertising for proposals on account of building	84 60
Account of plans and specifications of building	-,000
	\$53,978 60
<del></del>	
SCHEDULE I.	
Cash from parents and guardians on account of tuition and mainten	ance \$2,832 00
·	
SCHEDULE J.	1
	T
STATE APPROPRIATION ACCOUNT SHOWING AVAILABLE BALANCES FOR FISCAL YEAR.	THE FORTY-SECOND
Account of Maintenance.	
1889—July 1—To (biennial) State appropriation	81,000 00
CR. 1890—July 1—By warrants and coin received from State Controller during forty-first fiscal year	38,718 45
To balance of said appropriation available for the forty- second fiscal year4 33	\$42,281 55

### Account of Site and Buildings.

	Dr.		
	1889—July 1—To State appropriation	\$170,000 00	
•	1890—July 1—By warrants and coin received from State Controller during forty-first fiscal year	53,981 10	
	To balance of said appropriation available for the forty- second fiscal year		\$116,018 90
	Account of Furnishing.		
	Dr. 1889—July 1—To State appropriation	. \$15,000 00	
	1890—July 1—By warrants and coin received from State Controller during forty-first fiscal year	3,242 70	
	To balance of said appropriation available for the forty- second fiscal year		\$11,757 30
	_ Account of Water, Sewerage, and Improvement of Grant	ounds.	
	Dr. 1889—July 1—To State appropriation————————————————————————————————————	. \$15,000 00	
	1890—July 1—By warrants and coin received from State Controller during forty-first fiscal year	. 129 28	
	To balance of said appropriation available for the forty- second fiscal year		\$14,870 72

#### SCHEDULE K.

#### RECEIVED FROM FARM PRODUCTS, ETC.

Milk, 27,455 quarts at 7 cents	\$1,921 8	35
Eggs. 2.395 at 21 cents	59 8	8
Eggs, 2,395 at 2½ cents Potatoes, 4,589 pounds at 1½ cents	57 8	
Tomatoes, 113 boxes at 50 cents.	56 5	
Corn, 1,836 ears at 1 cent	18 8	
Squash, 3,288 at 2½ cents	82 2	
Cucumbers, 2,670 at 1 cent	02 2	
Outline 181 - 10 and 1	26 7	
Melons, 171 at 10 cents.	17 1	
Uaddage, 24 at 5 cents	1 2	
Pumpkins, 1,000 pounds at ½ cent	5 0	
Beets, 365 pounds at 1 cent	3 €	15
Peas, 163 nounds at 5 cents	X 1	.5
Peaches, 3.761 pounds at $2\frac{1}{2}$ cents	94 (	0
Apricots, 243 pounds at 24 cents	6 (	7
Grapes, 492 pounds at 2½ cents	8 8	
Almonds, 41 pounds at 10 cents	4 1	
Hay, 202 tons at \$10	2075	
Pork, 5,584 pounds	530 4	
Colver 5 gold of		
Calves, 5 sold at	50 t	
T 12 00		- \$3,138 40
Expenditures of farm:		_
Farm expenses, plowing, seeding, cultivating, etc.	\$542 1	
Feed for stock		.3
Live stock	200 (	0
Farmers' wages	360 0	0 .
		- 1,618 29
		\$1.520.11

The above table does not include the estimated value of several acres sowed to wheat that were diverted to pasturage and supported an average of twenty head for four months. At the usual rate of \$1 50 per head per month, this would make \$120 to be added to the value of the farm's yield, or a total profit over all expenditures of \$1,640 11.

#### INVENTORY AT SANTA CLARA, JUNE 30, 1890.

, ARTICLE.	Cost Price.	Market Value.
Four albums, picture One box alphabet cards		\$1 (
One box alphabet cards	\$0 50	1 8
The box alphabet cards Three alphabet charts The anvil and block Wenty-five pounds apples, dried The apple parer Two aprons, buttoned Tight Argand burners and chimneys The auger Three axes and handles The piece bacon The pounds baking powder The banner, wall	06	18 ( 1 (
ne apple parer		{
wo aprons, buttoned	1 25	1 ( 10 (
ne auger	1 05	3
the dates and handles	1 20	
rive pounds baking powder	40	2 ( 5 (
one banner, wall Tive hundred pounds barley One basket, bread	01	5 (
hree baskets, card	50	1 8
'wo baskets, house 'hree baskets, hamper, large	6 00	1 2 18 (
Four baskets, hamper, mediumeven baskets, laundry	1 25	5 ( 11 2
'hree baskets, waste	60	1 8
light baskets, work	50 1 25	4 (
en basins, wash, stationary	12 00	120 (
leven basins, handlight basins, tin	50 25	5 i 2 i
ne bass violine baths and fixtures		21 ( 180 (
hree boxes beads, colored	20 00	75 (
hree boxes beads, colored	30	
ne hundred and twenty-one bedsteads, iron, single	7 002	847
hree boxes beads, colored.  en pounds beans ne hundred and twenty-one bedsteads, iron, single wo bedsteads, iron, double ix bedsteads, wood aggregate ne bedpan ne piece beef, dried. wo hundred and twenty-five feet belting, leather average cost hirty-seven feet belting, rubber ne bell, institution ne bell, electric	11 00	22 ( 139 (
ne bedpan		1
wo hundred and twenty-five feet belting, leather average cost		1 : 51 (
hirty-seven feet belting, rubberne bell_institution	50	18 ( 12 )
ne bell, electric		2 (
hree bells, diningwo bells, school	1 25	3 ' 1 '
wo bells, school	40 1 25	40 8 5 0
hree benches, wash	1 50	4 (
ix benches, porchive benches, kindergarten	2 25 50	13 k 2 k
orty-six bibs	15	6 9
orty-six bibs ne billholder hree bins, bread	6 00	18
hree bins, mealour bits and bridles	6 00	18
ight bits, carpenter	25	$\frac{7}{2}$
leven boxes blacking, shoewo nackages blacking, stove	05 85	1
wo packages blacking, stovehirteen blackboards, school	4 50	58
x blackboard erasers	05 4 50	983
welve pair blankets, white	8 00 3 00	96 12
our pair blankets, table	3 00	7
hree pair blankets. horse	4 00 1 00	12 ( 120 (
ne hundred and twenty pair blinds, window		
ne box blocks, colored ne box blocks, figures		
ne set blocks, mosaic	l l	ŧ
ne box blocks, plain ine blocks, repoussé wo sets block and fall		5 4

#### INVENTORY AT SANTA CLARA-Continued.

Article.	Cost Price.	Marke Value
Six sheets blotting pads and holders		\$1
Four blowers, hre	\$0.60	2
One board, backgammon		
Two boards, bread Nine boards, form, school	· · · ·	1 4
Nine boards, form, school		1
Two boards, meat		
one board, card, perforated	[	
One board, card, perforated		3
one board, drawing		
our boards, skirt	3 50	14
ne boar		15
ne boiler, range		$\frac{54}{2}$
One half barrel boiler compound		7
one patent boiler, combination	3 50	10
wo boilers, mush	4 50	9
one book, bible	1 00	4
'welve books, copy	10	1
n book, dictionary		12
'wo books, directories	: <b></b>	7
welve books, geographies		7
hirty-two books, hymnals	75	24
our books, letter press	75	3 3
Pree books, State Codes, etc. wenty books, Readers, No.1	10	2
ix books, Readers, No.2	20	î
welve books. Readers, No. 3	27	3
welve books, Readers, No. 3 welve books, Readers, No. 4	33	š
our books, statutes and amendments		5
Forty books, school (unused)	15	6
Forty books, school (unused)	40	_3
Books, Institution Library		50
wo book-rests	75	1
lix bowls, cooking	45	$egin{array}{c} 2 \\ 1 \end{array}$
me bowl, chop		i
ine hundred and twenty-seven howle much	10	12
we bowls, gravy	žĭ	4
ive bowls, sugar	1 00	5
'ive bowls, sugar	25 j	3 (
ne box. cake. tin		1 (
our boxes, coal and wood	1 25	5 (
wo boxes, document, iron	7 00	14 (
ne brace and bits	40	3 4
welve brackets, lampighty-three brackets, gas, with burnersx bricks, bath	50	41
s briefs, both	10	37
wo broilers.	1 50	3
xty brooms, corn	25	15
wo brooms, stable	50	1 (
ght brooms, school drill	20	1 (
wenty-five brooms, whisk leven skeins braid, feather edge	$04\frac{1}{2}$	3
leven skeins braid, feather edge	05	
our skeins braid, serpentine	05	
wo pieces braid, dress	05 25	į
wo brushes, crumb	60	6
en brushes, dusten brush, glueen brush, glueen brush, glueen brush	w	
x brushes, hand	25	1 8
wo brushes, horse	5ŏ	ī
ven brushes, paint	30	2
ghteen brushes, scrub	20	3 (
hirty brushes, shoe	21	6 3
· · · · · · · · · · · · · · · · ·	21	1 2
x brushes, stove	30	3 6
x brushes, stovewelve brushes, toilet		
welve brushes, toilet	1 25	5 0
x brushes, stove welve brushes, toilet our dozen brushes, tooth wo brushes, wall wo brushes, whitewash		5 ( 2 ( 1 5

### INVENTORY AT SANTA CLARA-Continued.

ARTICLE.	Cost Price.	Market Value
Six buckets, slop	\$0 50	\$3
One bucket, zinc		1
One buffett		23
Two buffett covers	. 175	3 130
One bull	-	25
Eighteen bureaus	8 00	144
Twelve bushings		2
Chirty-two pounds butter	. 25	8
I wo cards buttons, agate Two dozen buttons, collar	. 12	
Two dozen buttons, collar	25	
Fifteen dozen buttons, porcelain	04	
Four dozen buttons, rubber. Die package buttons, shoe	. 65	
"ive gross buttons, metal	1 1	1
one cabinet case (office papers) welve cake molds		35
welve cake molds		
Cour calves	10.00 (	40
welve pounds candy ifteen pounds candles	121	1
Titeen pounds candles	$\frac{12\frac{\text{I}}{2}}{20}$	1
'wo candlesticks'our cans milk	3 00	12
hree cans oil	25	12
light cans tomatoes		2
en cans oysters	15	ī
ourteen cans corn	10	1
x yards canvas	40	2
ive canvas patterns	50	2 .
welve canvas pieces		9
our canisters ne hundred and fifteen and one half yards carpet, parlor, Superin-	50	2 (
tendent's and drawing room	1 50	173 2
we hundred and twenty-five yards carnet sleening-rooms	1 121	235 1
hirteen and one half vards carpet, stairs	$\frac{1}{2} \frac{1}{00}^{2}$	27 (
tendent's and drawing-room we hundred and twenty-five yards carpet, sleeping-rooms hirteen and one half yards carpet, stairs our sheets cardboard gift packages cards, sewing and pricking ne caster, plated hree casters, wire	20	
ght packages cards, sewing and pricking		1 5
ne caster, plated		2 5
aree casters, wire	60	1 8
wo gallons catsup our chairs, carpet rockers	3 00 4 50	6 ( 18 (
ne hundred and two chairs, cane seat	1 00	102 (
wo chairs, child's high	1 50	3 (
our chairs, child's low	75	3 (
wo chairs, invalid		12
vo chairs office revolving	7.50	15
vo chairs, office, arm	3 00	6
wo chairs, office, arme hundred and thirty-five chairs, perforated seat	60	81
ght chairs, rockers, large	2 25 1 50	20
ine chairs, rockers, large	1 30	$egin{array}{c} egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}$
vo boxes chalk	25	1
velve chambers	35	4
nirteen chamber toilet sets	2 50	32
x charts, school	50	3 (
irty pounds cheese	13	3 9
arty-six yards cheviot	09	3
x yards chenille	06	
e chamois skinne chisels, assorted	30	2 7
ree chisels, corner	30	2 8
n chisels, cold	10	1 0
ree chisels, flat	25	- 7
ve chisels, groove	30	15
r pounds chocolate	· 90	1 2
o churns		3 5
e can clams		3
ght clamps, iron	25	2 0
ne pair clapperse cleaver, meat	10	1 5
V CIVAT VI. IIICAU		1 50

#### INVENTORY AT SANTA CLARA-Continued.

Article.	Cost Price.	Market Value.
Two clocks, medium		<b>\$</b> 8 5
Five clocks, small	\$1.50	7 5
One clock toy (school)	l :l	5
One thousand feet clothes line, wire		10 0
Five dozen clothes pins		3
Four clothes presses One clothes sprinkler	500	20 0
One clothes sprinkler		2 5 8 0
One clothes bin Six clothes bags	80	. 48
Five yards cloth, rubber	70	3 5
Seveuteen cloths, bed		25 5
Sixty-one cloths, table	2 00	132 0
Five cloths, trav	75	3 7
One pair clubs, Indian		10
Four coal scuttles	75	3 (
Two coal shovels	, 1 25	2 5
Two cans cocoanut	29	
Fifteen pounds codfish	08	1 2
Fifteen pounds coffee		$\begin{array}{c} 36 \\ 25 \end{array}$
Two coffee mills		10
Two colanders	1 50	3 0
Tive collers nine	20	ĭ
Seventeen combs dressing	20	3 4
Yve collars, pipe eventeen combs, dressing hirty-four comb and brush holders	25	8 8
'Wo combs curry		Ĭ
eventy-two comfortables	1 50	118
even commodes	4 00	28
light comforts	. 60	4
ne cooler, water		8
'ive pounds copper, sheet		1
en pounds cornnieal	.] 02	
line pounds cornstarch	08	
ne corn popper	14.00	<b>F0</b>
ive cornets		70
ne corkscrew		13
lix cots		19
hirty-nine balls cotton, darningeven pieces cotton, darning	05	1
eventeen pieces cotton, marking	Ŏ3	
eventeen cows, milch		765
orty pounds crackers, soda		
en pounds cracked wheat	05 <u>1</u> 02 <u>1</u>	l .
lighteen cribs, wooden	5 00	90
ive crochet hooks	. 05	i
wo balls crochet thread		l .
our cruets for casters		1
ne cultivator		12
wenty-two cups, agate	. 06	1
orty-three cups, tea and coffee	. 06	2
wo cups, porcelain	127	
ve cups, egg	- 00	. 1
ve cups, egg	05	1
wo clips, paper	25	1
ve pounds currants, dried	08	ŀ
ght cupboards (portable)	5 00	40
ght pair curtains, short	75	6
vo pair curtains, lace	4 50	9
velve pair curtains, chintz	. 2 00	24
ne curtain, drop	.	. 5
ne curtain, dropne cushion, sofa	.	. 2
ne cuspidor		.  1
ne pair compasses, carpenter's		
ne cutter, meat, patenthirty-four and one half yards denims, blue	-	.  7
hirty-four and one half yards denims, blue	. 20	
wo desks, office		45
wo desks, teacher'swenty-five desks, school, double		100
montes Gree dealer asked dealer	. `4 00	

## INVENTORY AT SANTA CLARA—Continued.

ARTICLE.	Cost Price.	Market Value.
One desk, stationary Three desk-rulers Thirty-one designs for repoussé Two sets dies and stamps Four dippers Two diamonds, glazier's One demijohn Forty-five dishes, butter Five dishes, dessert, glass Three dishes, fruit, glass Four dishes, meat Six dishes, pickle One dish, pudding One hundred and thirty-nine dishes, pudding (small) Sixteen dishes, toy Fifty-one dishes, toy Two donkeys Two drawing knives One drill, breast Six drills, assorted Four drivers, screw		\$1.50
Three desk-rulers	\$0 50	1 50
Thirty-one designs for repousse	15	4 65
Two sets dies and stamps		16 00
Two diamonds glazier's	30	1 20 8 00
One demijohn		50
Forty-five dishes, butter	03	1 35
Five dishes, dessert, glass	06	30
Three dishes, fruit, glass	2 50	7 50
Four dishes, meat	50	2 00
Six dishes, pickle	35	2 10
One hundred and thirty pine disher pudding (amell)	05	50 6 95
Sixtoen dighas soun	10	1 60
Fifty-one dishes, vegetable	60	30 60
One set dishes, tov		1 00
Two donkeys	20 00	40 00
Two drawing knives	50	1 00
One drill, breast		3 50
Six drills, assorted	50	3 00
Four drivers, screw	35	1 40
Four drivers, screw One set drivers, screw, box One drum, bass		1 50 7 00
One drum, tenor	- <b></b>	15 00
Four pair drumsticks	1	2 00
Twenty-eight dustpans	15	4 20
One drum, tenor Four pair drumsticks Twenty-eight dustpans Eight dusters, feather Two pair dumb-bells, iron Twenty-two pair dumb-bells, wood Eighteen dozen eggs Three egg beaters One piece elastic Thirty elbows, pipe Three hundred and seventy-five envelopes, letter One thousand seven hundred and fifty envelopes, official One engine and boiler, eight-horse	83	4 6 6
Two pair dumb-bells, iron	. 50	10
Twenty-two pair dumb-bells, wood	_ 40	
Eighteen dozen eggs	_ 27	
One piece electic		. 7
Thirty albows nine	30	
Three hundred and seventy-five envelopes letter	2 00	
One thousand seven hundred and fifty envelopes, official	2 00 3 00	5 2
One engine and boiler, eight-horse	_	400 0
One engine and boiler, eight-horseOne engine and boiler, twelve-horse		. 860 0
Eight erasers, ink, rubber	_1	8
Four extinguishers, fire, electric. Forty-eight extinguishers, hand grenades Five bottles extract, vanilla.	·-\	72 (
Five bottles extract varille	\	62 6
Five bottles extract, lemon	2	5 1
Nineteen files, assorted	. 1	
One file, flat		
Two files, three-square		
Two files, letter	\ 7	75\ <b>1</b>
One file, paper	\	==-\
Four fire stands	1	
Eighty-one fire brick		07 \ 5
One flag, American Four flags (kindergarten) Twenty-eight flatirons Four flatiron rings Six flatiron holders		75 1
Twenty-pight flatirons	4	70 1
Four flatiron rings		25
Six flatiron holders		15
One flute		
One flute		40
Thirty-seven and one half yards flannel, cotton		$09\frac{1}{2}$
FORTY IOWIS		50 2
One forge, bellows, and stand		2
One nundred and eighty-one lorks, table		10 1 30 1
Three forks, carring		40
Two forks cooking		40
Two forks, hav		75
Two forks, manure		
One forge, bellows, and stand. One hundred and eighty-one forks, table. Sixteen forks, silver-plated. Three forks, carving. Two forks, cooking. Two forks, hay. Two forks, manure. Eighty-three jars fruit, quarts. Two freezers, ice cream. Two frunels.		20 1
Two freezers, ice cream		2
Two funnels		1
•		

#### INVENTORY AT SANTA CLABA-Continued.

ARTICLE.	Cost Price.	Market Value.
Furniture, parlor suit, consisting of eleven pieces, four vases, three		<b>4995</b> 71
diagoline equinments to wit generator regulator mixer weights	1	\$335 75
vault, tank, and pipings Three hundred gallons gasoline One hundred and fifteen gas brackets and burners		1,225 00
Three hundred gallons gasoline	\$0.20	60 00
One hundred and fifteen gas brackets and burners	60	69 00 5 00
Two games for children	20	1 00
Twenty gas globes		135 00
Nine packages gelatine.	10	90
Twelve pounds ginger.	19	2 28
Two classes colors		3 00 3 00
Two glasses, cleay Ten lights, glass Five pounds glue	30	3 00
Five pounds glue	14	70
Two gas lighters	1 20	2 50
Four pair gloves	20	. 80 2 64
Thirty-three goblets Three grates and fixtures	08 4 50	13 50
Two graters, nutmeg	2 00	50
Two graters, nutmeg One grater, bread One griddle, cake		50
One griddle, cake		75
One grindstone and fixtures		4 00 5 00
One grindstone and fixtures	200	1 20
Two gauges, carpenter	3ŏ	- 60
Two gauges, carpenter One guitar and box Forty-eight and three quarters tons hay One pair hay hooks (tongs).		25 00
Forty-eight and three quarters tons hay	10 00	487 50
One hat stand		3 00 15 00
One harrow, iron		20 00
Six hammers	75	4 50
Six hammers One hammer, sledge Seventeen pounds ham, smoked Four handles, mop Six handles, patent extension handles		1 00
Seventeen pounds ham, smoked	16	2 72
Six handles, map	40 75	1 60 4 50
		4 75
One set harness, double Two sets harness, single One set harness, cart		75 00
Two sets harness, single		40 00
One set harness, cart		10 00 6 00
Twelve sets harness hooks	20	2 40
One bar harness soap		30
One bar harness soap One pair hair clippers		1 50
Three hatchets	75	2 25
Four hat racks One heifer	75	3 00 15 00
Two hitching straps		1 50
Six hoes, garden	60 ∤	3 60
Three hampers for clothes	3 00	9 00
Ten pounds hominy Fifteen hogs	7 00	35 105 00
Two holders for spoons	7 00	70
Seven dozen hooks for clothes	40	2 80
Three horses Two hundred and fifty feet hose, rubber Two hose nozzles		200 00
Two hundred and fifty feet hose, rubber	25	62 50
One ice box	· • • • • • • • • • • • • • • • • • • •	1 50 4 50
One ice pick		75
Five pounds indigo	20	1 00
Twelve bottles ink	30	3 60
Six ink receivers, cut-glass		9 00
Three ink stands, bronze	05	4 50 2 25
One injector steem	00	30 00
	60	1 20
Two pounds insect powder		
One injector, steam Two pounds insect powder One insect gun		75
Two pounds insect powder One insect gun One set instruments for drawing Fifty-one jars, fruit, glass		75 2 50 5 10

#### INVENTORY AT SANTA CLABA-Continued.

Article.	Cost Price.	Market Value.
Two jars, stone	\$0 45	\$0.8
Three isrs slop	50	1.5
Four jugs, molasses		$\begin{array}{c} 1 & 6 \\ 2 & 6 \end{array}$
Five jugs, water	2 50	7 5
Three kettles, cooking, agateOne kettle, tea, agate	2 50	2 5
Two kettles, water	J I	5 0
Two knives, bread Three knives, butcher		2 5
Three knives, butcher	1 50	4 5
Three knives, butter	25 1 25	5 0 5 0
Four knives, carving Two knives, chopping	75	15
One knife, putty	J	ã
One knife, putty Ninety-six knives, table Two knives, vegetable	10	9 6
Two knives, vegetable		5
Two ladders, long, fire		25 0 3 0
One ladder, tank Three ladders, stepaggregate		11 0
Eleven ladles	15	1 6
Four lamps, student	5 00	20 Ŏ
Five lamps, stand aggregate		13 7
Eighteen lamps, ordinary	60	10 8
Sixteen lamp chimneys	10	1 6 10 0
Ten nounds lard	111	10 0
Sixteen lamp chimneys Eight lanterns Ten pounds lard Laundry equipment, to wit: Two washers, two mangles, wringer, starcher, drier, etc.	112	
starcher, drier, etc.		1,628 7
One letter press and stand		11 00
Two letter press wells Two letter press brushes	50	1 00
Two letter press brushes		50
Two letter boxes One lemon squeezer	25	50 60
One lemonade set, glass		4 50
One lemonade set, glass One level, spirit. Fourteen yards linen One hundred and fourteen and one half yards linoleum. Two barrels lime Two lounges Three locks, Yale, pad One and one fourth cases lye, concentrated. One lubricator, patent Two hundred and forty feet lumber, fence, etc. Ninety-five leather laces		4 50
Fourteen yards linen	40	5 60
One hundred and fourteen and one half yards linoleum	90	103 05
Two longoe	2 00	4 00 25 00
Three locks Yale, nad	1.50	4 50
One and one fourth cases lve. concentrated.	3 75	4 69
One lubricator, patent		12 00
I wo hundred and forty feet lumber, fence, etc.		5 80
Ninety-five leather laces		1 00 50
One half kit mackerel		1 00
Twelve mans		24 00
One map rack, iron		12 00
One half box macaroni. One half kit mackerel. Twelve maps One map rack, iron One fourth great gross matches	]	2 00
Inree match cases		45
One hundred and twenty-seven mattresses, hair	4 75 1 00	603 25 123 00
Five mattresses spring	10 00	50 00
Five mattresses, spring	50	80 00
our mats, door	1 25	5 00
Thirty-six mats, carnet	1 00	36 00
l'hirty mats, oil cloth	1 00	30 00
ren mats, weaving (school)	10 70	1 00 4 90
Seven mats, stove, zinc	35	52 50
One hundred and fifty yards matting	40	6 00
rour manets, wood	25	1 00
I'wo mallets, rawhide	25	50
Two martingales, standing	1 25	2 50
Two mashers, potato		1 00 4 50
Four measures	45	1 80
Seventeen mirrors	2 00	34 00
One half barrel molasses		12 20
	1 50	3 00
Two molds, steaming		9 25

#### INVENTORY AT SANTA CLARA—Continued.

ARTICLE.	Cost Price.	Market Value.
Ten mopsOne hundred and twenty-two mugs	\$0 30 04	\$3 00 4 88
Ten music stands	1 00	10 00
Thirty-nine music books	1 50 1	19 50
Forty-three pieces music in sheets	10	4 30
One music case, wood Forty-three yards muslin, bleached		2 00
Nine and one half yards muslin, check	08	3 44 1 14
Four pounds mustard	18	72
One bottle mucilage.	10	40
One bottle mucilage. Thirty loads manure Medicines and drugs estimated Four milk cans Fifty-five pounds nails, assorted One nail cutter. Four hundred and eighty-seven napkins Seven napkin rings Twenty papers needles. Fourteen papers needles, weaving Twenty-seven needles, machine One pound nutmegs Three nut crackers Four gallons oil, machine	1 00	30 00
Medicines and drugsestimated	<u></u>	35 00
Fifty five rounds poils accorded	75	3 00
One nail cutter	$04\frac{1}{2}$	2 47 60
Four hundred and eighty-seven nankins	05	24 35
Seven napkin rings		70
Twenty papers needles	031	70
Fourteen papers needles, weaving	05	70
Twenty-seven needles, machine	05	1 35
Three nut crackers		65 75
Four gallons oil, machine	50	2 00
Four bottles oil, olive	1 50	6 00
Four bottles oil, olive	30	1 50
Three oil can feeders	35	1 05
Two oil cans	25	50
One oil stone	:	50 7 50
Two oil stoves Thirty-two yards oileloth, floor. One orchestrone	50	16 00
One orchestrone		25 00
One ocarina One oven, rotary, with building and bakery complete. Twenty-one gallons paint, assorted colors One can paint, black, carriage One can paint, green Thirty-six pails, wooden. Two pails, iron. Two pails, iron. Two pails, milk Twenty-four pans, oven, for bread. Twelve pans, baker's Eight pans, dish Six pans, fry Twenty-one pans, milk Ten pans, sauce. Thirty-six pans, tin, small Five feet packing, rubber		75
One oven, rotary, with building and bakery complete	1	1,525 43
Twenty-one gallons paint, assorted colors	1 00	21 00
One can paint, black, carriage	[	1 60 1 20
Thirty-six pails, wooden	30	10 80
Two pails, iron	75	1 50
Two pails, milk	75	1 50
Twenty-four pans, oven, for bread	90	21 60
Twelve pans, baker's	40	4 80
Six none for	10	5 60 <b>3</b> 00
Twenty-one pans milk	30	6 30
Ten pans, sauce	60	6 00
Thirty-six pans, tin, small	10	3 60
Five feet packing, rubber Eight quires paper, legal cap	50	2 50
Fight quires paper, legal cap	30	$\begin{array}{c} 2 \ 40 \\ 2 \ 00 \end{array}$
Two and one half onires namer wide hill	25 80	2 00
Eight quires paper, foolscap. Two and one half quires paper, wide bill Two and one half quires paper, narrow bill. Six packages paper, cutting, for school work Thirty-two sheets paper, glazed, for school work	60	1 50
Six packages paper, cutting, for school work	22	1 32
Thirty-two sheets paper, glazed, for school work	02	64
Ten packages paper, toilet	07	70
Eighteen boxes paper, writing	15	2 70
Thirty nounds neaches dried	20	80 2 70
Ten packages paper, toilet	35	2 10
ten pounds peas, spiit	l ua⊣	50
		30
Four dozen pens, steel.  Eleven dozen penholders Two pounds pepper, red Five pounds pepper, black One box pencil crayons One half box pencils, slate One pick	05	55
Two pounds pepper, red	30 35	1 75
One hox pencil crayons	30	1 75 50
One half box pencils, slate		15
One pick		1 25
Sixty-eight pictures, framedaverage	30	20 40
One pick Sixty-eight pictures, framed One picture, panel Two pianos		2 50
Two planos		400 00
Two piano stools		4 00

#### INVENTORY AT SANTA CLARA-Continued.

INVENTORY AT SANTA CLARA—Continued.		
Article.	Cost Price.	Market Value.
One piano cover One hundred and seventy-six pillowsavcrage	\$1 30	\$4 00 228 80
Four hundred and sixty pillow cases	40	184 00
Two hundred pillow shams	. 20 (	40 00
Two packages pins, safety Five packages pins, common	.	10
Five packages pins, common	. 05   07	25 8 <b>40</b>
One hundred and twenty feet pipe		5 00
Nineteen pitchers, water	1 1 1 1 1 1 1 1	19 00
Four pitchers, milk	1 60 1	2 40
Eight pitchers, syrup	50	4 00 6 00
Eight pitchers, syrup Three pitchers, cream, glass Two pitchers, chocolate	200	2 00
One pitcher, stone		1 00
Two hundred and fifty-three plates, breakfast	083	21 08
T WO DIRITES. Dread	1491	25 5 76
Thirty-six plates, china Fifty-one plates, dinner	081	4 26
Twelve plates, hand		1 50
Eighty-three plates, pie	Uðŝ/	6 91
Twenty plates, soup	081 05	, 1 67 90
Eighteen plates, tin	05 20	2 00
Ten plattersTwo planting bars	1 00	2 00
One plane, jack		1 00
Two planes, smoothing		2 00
One pair pliers, combinationOne pair pliers, gas		2 00 1 25
One plow		14 50
Twelve pokers, fire	15	1 80
Twelve pokers, fire Nine pot scrubs	03	27
Twelve sacks potatoes	1 30 1 25	15 60 6 25
Fifty pots for flowers	05	2 50
Four nots for mustard	20	80
Three pots for pepper	20	60
Three pots for pepper One pot for sprinkling		60 4 00
Four pots for tea Twenty-five pounds prunes, dried Two pumps, steam pulsometer	1 00	1 88
Two numbs steam pulsometer	012	350.00
One pump, prass, force		70 00
One nump, old, not in use		5 00
Four punches, for harness, etc.		. 2 00
One can petroleum, crude	40	2 00
Five racks for towels Railing for piano		21 50
One half box raisins		1 05
Four rakes, garden		2 400 1 50
One rake, fire One range, kitchen		163 00
One range, portable baker		2 50
One set repoussé tools		4 00
Four and one half vards ribbon		45 50
One box rings for school	05	25
Four robes, carriage	4 00	. 16 00
Four robes, carriage Two rolling pins	40	80
Two rubber stamps	12	1 75 36
Three dozen rubber bands One set rubber type	12	1 25
Ten feet rubber sheeting	25	2 50
Sixteen bottles sauce, pepper	30	4 80
Two safes, iron		72 00 8 00
One safe, meat	06	60
Ten pounds sago Ninety-seven salts	05	4 85
One sand table		5 00
Sixty packages sapolio	06 09	3 60 11 70
One hundred and thirty saucers	15	3 45
4 WOLLDY TOLLOW BOUNCED, ILUID	-0 1	3 20

#### INVENTORY AT SANTA CLARA-Continued.

ABTICLE.	Cost Price.	Marke Value
Four saws, hand One saw, crosscut, four feet	\$1 50	<b>\$</b> 6
One saw, crosscut, four feet		4
One saw, buck		1
Iwo saws, hack		
ne saw, framing		1
ne saw, meat ne saw, meat ne saw, scroll		1
ne saw, scroll		3
uve saw norses, wood	467 (	2
ne saw set.		
Cight sashes, window	1 00 1	. 8 (
ne scales, platform ne scales, house		14 (
ne scales, nouse		5 (
ne scales, apothecary		8 (
ne scraper, for oven		1 2
our scoops	20	9.0
leven pair scissors	20	2 2
ive scrap books	50	2 5
wo pounds screws	F 55-	40.0
ight screens, ure	9 00	40 0
ight screens, fire ght screens, window wo scythes wo scythe snaths	1 90	12 0
wo scytnes		2 5
wo scytne snatns		6
ne scythe stone		2
ne seal, official		5 0
our sewing machines		125 0
xteen sewing machine attachments		5 40
ne nundred and nineteen yards snade, musiin	1 15	17 8
wenty-eight shades, window	1 20	35 00
wo sieves	60	1 20
ne pair snears, garden		1 50
ne pair snears, garden, snort		1 00
ne sickie		70
ighteen feet shaftings, ten pulleys, two collars, eight hallgers		90 0
weive shelves, portable	50 J	3 6
ne pair snears, omce		7
ne pair snears, tinner's snips		1 00
our sewing machines	90	1 50 6 00
Ignt Suovels	20	1 20
as abovels, are	20 \	20
x shovels, fire wo shovels, oven our hundred and eighty-four sheets, linen	40	193 6
ne hundred and eighteen sheets, rubber	1 50	177 0
or about ironing	30	177 2
our sneets, froming		$\frac{1}{2}\frac{2}{7}$
ifty nine aloing all outlining	05 05	$\frac{2}{2}\frac{6}{9}$
our sheets, ironing fity-five skeins silk thread fity-nine skeins silk, outlining wo skeins silk, embroidery wenty-six and one half yards silesia	05	
wo shells sun, cullbrougery		$\stackrel{1}{\scriptscriptstyle \Sigma}\stackrel{1}{\scriptscriptstyle 2}$
even sinks	08½ 7 50	52 5
even sinks	30	1 2
our skimmers	30	17 70
fty-nine slates we hundred and fifty pounds seap, laundry	041	11 2
we handred and interpolated soap, raundry	$02\frac{1}{4}$	1 0
orty-oue half cakes soap, house	03	2 28
venty two point goden boyer	20	4 40
woo hundred and twolve nounds gode weeking	01	3 12
ree bars solder	40	1 20
o soldering irons		2 25
e soldering scraper		50
e hundred and seventy-three spoons, tea	25	43 25
enty-nine spoons, dessert	35	10 15
onty angong table	45	31 50
enty spoons, table	40	. 25
e spoon, cake	101	78
spoons, kitchen	$\frac{121}{15}$	
e spoons, butter	15	75 25
e spoon, medicine		2 00
o spades		
r sponges hundred and fifty-two spreads for beds		159 0
s numered and intertwo spreads for deds	1 00	152 0 2 0

#### INVENTORY AT SANTA CLABA-Continued.

·	Cost Price.	Market Value.
One sprinkler for laundry		<b>\$</b> 3
Two spiders	\$0.50	1
ine snoke shave	, ,	
ne half box split zephyr		
wo squares, try		0
wo squares, twenty-iour-inch		$\frac{2}{6}$
hree steamers, kitchen, agate		4 8
ne steamer kitchen natent		6 5
wo steel carvers	•	5
ne stereopticon and slides		50 Ö
wenty stoves with nine aggregate	1	297 5
ne stove, gasoline, cooking		7 5
ne stove, gasoline, cookingne stove, laundry, ironing		30 0
inety-five stoolsne stone, whetne stone, whet	40	38 0
ne stone, whet		50
our strainers, tea	601	1 00
wenty bales straw  ifteen pounds starch ne strainer, milk	023	13 50 1 05
oe etrainer milk	01	60
		1 25
velve hunches strings corset		60
vo bunches strings, shoe		1 00
ourteen strings, violin, E and D		2 10
x pair suspenders	15	90
welve bunches strings, corset	08	11 60
		7 83
ve pounds sugar, white	$09\frac{1}{2}$	<b>48</b>
vo surcingles	75	1 50
e sulphur sprayer		1 00
ne spraver, garden		2 00
ne table, bakery		5 00 3 50
ne table, bakery, side	10.00	24 00
vo tables, dining, extension ven tables, dining, children's	12 00	70 00
ven tables, uning, culturen seeden tables dining agricum		30 00
nree tables, dining, asylumree tables, dining, attendants'		15 00
ree tables, kitchen	4 00	12 00
rree tables, kitchen ght tables, kindergarten		8 00
vo tables, laundry, folding		6 00
wo tables, laundry, folding		10 00
ne table, sewing		20 00
venty-six tables, colored average		5 00
wenty-six tables, toiletaverage	1 50	39 00
ght table covers, colored	75	6 00
ven tanks, water appregate :	- 1	425 00
nirty-five pieces tapene tape measure, 100 feet	09	1 75 1 50
aree boxes tapers, wax		75
velve pounds tea.	271	3 30
ghteen thimbles	052	90
ghteen thimbles ne package thread, Barbour's ve dozen thread, white		75
ve dozen thread, white	45	2 25
ur dozen thread, black zenty dozen thread, Coates'		1 80
venty dozen thread, Coates'		9 00
the tine mutting.		80
o tie ropes, with snapsve tents and poles		1 00
ve tents and poles		60 00
relve tidies		3 00
velve tins for cake	05	60
vo toasters	3 50 \	80 17 50
ve tongs, pipe	9 90 /	6.50
ne set toy money		2
pree toy suimals		6
pur hundred and eighty-four towels, hand	07	33 8
	12	10
ine towels, roller	14	
ine towels, roller		Ē

#### INVENTORY AT SANTA CLARA-Continued.

Article.	Cost Price.	Market Value.
Five tray covers	\$0 40	\$2 00
One trowel		75
Two troughs, kneading		7 50
One triangle		1 00
One trombone, tenor.		
One trombone, alto		15 00
Two tubs, portable, wash		2 00
Inree tubs, stationary, wash		) 50 UU
One tuba		24 00
Two tureens, soup	-  <i></i> -	6 50
Ninety-nine tumblers	.1 08	7 92
Sixty spools twist	. 03	180
Two balls twine	.1 25	50
One twine holder	.	30
One set tree climbers		3 50
One set trees, double Thirty-seven yards toweling		3 50
Thirty-seven yards toweling	. 09	3 33
		40 50
One umbrella	.	1 50
Four pair underdrawers		2 00
Four pair undervests		3 00
Bell tenor trombone		22 50
Bell alto trombone		22 50
Twenty-two valves, globeaverage Sixteen valves, other	60	13 20
Sixteen valves, other	. 46	6 40
Sixteen vases	30	4 80
One half box vermicelli		ĺ 50
Two vises		13 50
One vise, hand		2 00
One vise, hand One and one fourth barrels vinegar Four violins aggregate	.	12 50
Four violins aggregate		75 00
Two violin boxes.	.  <b></b>	1 300
One wagonette		500 00
One wagon, two seats and top		125 00
One wagon, two seats and topOne wagon jack	.	5 00
One washer cutter	l	1 50
Two watering troughs		8 50
Two washboards		3 00
Thirty wands, school		6 00
Six wardrobes aggregate		100 00
Ten washstands, wood.	4 00	40 00
Ten washstands, woodOne washstand, iron		1 50
Four washbowls	60	2 40
Two whips One wheelbarrow, iron		1 50
One wheelbarrow, iron		8 00
One wheelbarrow, wood		2 50
Two balls worsted	40	80
One wagon wrench	l	1 50
One wrench, alligator		1 50
Two wrenches, box		3 00
One wreuch, Baxter		1 00
One wrench, monkey		1 75
Five cords wood		30 00
Twelve writing tablets		60
Thirty feet wire cloth		1 80
Three wagons for children		4 50
Twenty-four wine glasses		2 00
Amounting to		\$21,695 95
<u> </u>	]	ľ. <b>'</b>

### INVENTORY AT NEW SITE (GLEN ELLEN), JUNE 30, 1890.

Article,	Cost Price.	Market Value.
Furniture.		
Three bedroom suits, 7 pieces each		\$126
		90 (
Three bedsteads, double, wood I wenty-four bedsteads, iron, single Six bedsteads, iron, three-quarters Six bureaus, oak and ash One bath, porcelain lined	\$6 50	19 8
I wenty-four bedsteads, iron, single	. 7 00	168 (
Six beasteads, iron, three-quarters	8 25	49 5
One both normalain lined	.	90 0
One bath, zinc		44 ( 20 (
One bath, agate, foot		1 5
Twelve basins, white china		60
l'hraa haelzate wauta	1 1	2 2
Sixty-nine chairs, cherry Chirty-six chairs, cane-seat Twenty-four chairs, perforated Twelve chairs, antique, dining-room Six chairs, rockers, cane-seat	1 00	69 (
Chirty-six chairs, cane-seat	. 1 25	45 (
I'wenty-four chairs, perforated	. 70	16 8
I'welve chairs, antique, dining-room	1 25	15 (
Six chairs, rockers, cane-seat	3 00	18 (
Private a chairs, rockers, cherry	. 200	12 (
Six chairs, rockers, cherry  Welve chairs, rockers, porch  aggregate six chairs, rocking, wood  aggregate		33 ( 12 (
one chair, reclining		12 0
ix chairs, revolving	1 8 50 1	21 (
our chairs, step	1 50	6 0
our chairs, step ne chair, child's high		3 5
Four chairs, reedaggregate	1	46 5
ne commode, large		11 8
ne clock		6 (
wo clocks, alarm wo carpet rugs, largeaggregate		4.5
wo carpet rugs, largeaggregate		84 8
ne carpet rug, small		8 5
hree carpet rugs, small me carpet, hall and stair, with rods		3 ( 12 <del>{</del>
one carpet, han and stair, with rous		3 (
one carpet, blue Brussels, old one carpet, brown Brussels, old one carpet, mixed Brussels, old wenty-two mats from old carpets our desks, library		4 0
one carpet, mixed Brussels, old		8 0
wenty-two mats from old carpets	40	8 8
our desks, library		78 5
		49 (
wo fire-boards	1 50	3 (
ne ieather duster	1 1	
welve fans, paper		3 (
one hat rack		4 (
our ink receivers	50	20 (
iy mimmona		60
ix mats. door		4 8
ix mats, door		$\hat{2}$
wo mats, Japanese		2 (
ne hundred and seventy-four yards matting, new		45 E
lighty-two yards matting, old		17 (
wenty-two yards matting, cocoa, old		-
welve match safes, luminous		1 7
our match safes, china		- 3
no porlor grit 7 pieces, with covers of lines		150 (
wo narior built, a pieces, with covers of filleli		150 ( 1 (
ne mosquito netting ne parlor suit, 7 pieces, with covers of linen wo parlor brushes x racks		3 (
ne rack		1 1
ne settee of natural reed		25
aree shoe boxes, with creton covers		2 :
wo shoe bags		
në sideboard		18 (
welve screens for windows		7 (
ne table, marble top, mahogany		10 (
ne table, natural reed		15 (
ne table, square, extension		35 (
ne table, oakne table, oak		9 (
ne table, oak		7 8 5 8

#### INVENTORY AT GLEN ELLEN—Continued.

·	Price.	Market Value.
Three tables, oak	\$6 25	<b>\$</b> 18 75
Six tables, square	3 00	18 00
Six tables, square	7 20	21 60
Two tables, drop leaf	. 3 50	7 00
Three tables, redwood, side	_ 4 50 (	13 50
Seven toilet sets, chinaaggregate	;	27 25
Six toilet sets, tin	-	12 75
Two vases, blue	-	2 00 1 50
Two vases, white glass	-	1 50
Two vases, stone		50
Eight vases, assorted		2 00
One wardrobe, mahogany		15 00
One wardrobe, walnut		12 00
One wardrobe, cottage		8 00
Three washstands, cherry———————————————————————————————————	7 00	21 00
Seven washstands, oak and ash; one at \$7 50, six at \$5	-	37 50
Two washstands, stationary	- 12 00	24 00
, Furnishings.		
Twenty-two pair blankets, white	7 25	159 50
Forty-two pair blankets, colored	. 4 25	178 50
Seven bolsters	. 3 00	21 00
Seven bolster cases, ticked	_  50	3 50
Six cheviot aprons	- 40	2 40
Twenty-eight fancy splashers, doilies, mats, etc.	- 50	14 00
Seven mattresses, hair, double	- 12 30   7 75	86 10 46 50
Six mattresses, three quarters Twenty-four mattresses, single	4 00	98 40
Seven mattresses, excelsior, double		17 50
Six mattresses, excelsion, three quarters		10 50
Six mattresses, excelsior, three quarters	1 50	36 00
Six mattresses, spring, wire	5 00	30 00
Six mattresses, spring, wire Twelve napkins, officers'	10	1 20
Thirty-six napkins. Six napkins, white, fringed.	.  09	3 24
Six napkins, white, fringed	09	54
Three napkins, red	-	27
Seven pair pillows, first class	5 00	35 00
Twelve pillows, second class	. 1 80	43 20 10 80
Twelve pillows, nursery Forty-four pillow cases, unbleached	.  90     35	15 40
Thirty-six pillow cases, bleached	40	14 40
One pillow sham, fancy	-	1 50
Thirty-two sheets, double, bleached	60	19 20
Thirty-two sheets, single, unbleached	_  40	12 80
Four spreads, bed, first class	. - <b></b>	18 00
Four spreads, bed, first class	_ 1 00	12 00
Twenty-four spreads, colored	-	21 00
Two scarfs for sideboard	. 40	80
Three stand covers, chenille	. 15	3 00 16 20
One hundred and eight towels, fringed One hundred and eight towels, plain, white	15	16 26
Forty-four towels, dish	10	4 40
Twelve towels, roller		1 44
Twelve towels, Turkish		3 00
Six towels, aprons	.) 35 /	2 10
Thirteen tablecloths	. 2 00	26 00
One tablecloth, red damask	-	3 50
Three tablecloths, small redSix yards felt cloth	-	1 00 7 50
One tidy, fancy		1 00
Crockery, Glass, etc.		100
Three berry dishes, glass		3 75
Eleven butter dishes, glass		30
Twelve bowls, white	.	1 75
One bowl, sugar		1 00
One bowl, jelly One bowl, glass, amber		60
	j J	60
One bowl, glass, amber One bowl, gravy set	.	1 60

#### INVENTORY AT GLEN ELLEN-Continued.

ARTICLE.	Cost Price.	Market Value.
One bowl, silver tipped, sugar Forty-four cups and saucers. Thirty-six cream dishes, glass Twelve catsup bottles, glass Two cruets, glass Two cream pitchers, glass Twelve chambers Two degenters, glass		<b>\$</b> 1 0
Forty-four cups and saucers	.   \$0 16	7 0
Thirty-six cream dishes, glass	- i	2 2
Two amote class	-{	7 5
Two cream nitchers glass	·	7
Twelve chambers		6 0
		žŏ
Twenty-four dessert dishes Twenty-four dessert dishes, white china Three jars, three gallons each, and covers		1 0
Twenty-four dessert dishes, white china		16
Three jars, three gallons each, and covers		1 8
One jug, cut-glass, water.  Three hundred and sixty jars, glass, fruit (Mason's).  One measure for liquids, glass.		
One jug, cut-glass, water	110	1 0
One measure for liquida class	.  12	43 2
One mus syrun		4
One mug, syrup Twenty-four mugs, white stone		2 5
Two mustard pots		
Six molds for jelly, glass	1	3 0
Six pitchers, white, one gallon	1	1 7
Two pitchers, white, milk Two pitchers, majolica, water		7
Two pitchers, majolica, water	-	·2 (
One pitcher, china, milk		
Two pitchers, glass, cream.	·	1 3
Twenty four plates, soup		1 7
Twenty-four plates, soup Twenty-four plates, dinner, white and blue Twenty-four plates		1 5
Korty-jour places small fancy		4 (
Forty-eight plates, small, fancy  Twenty-four plates, pie, white.  Ten plates, square.		1
Pen plates, square		3 2
Four plates, hand-painted, china	]	3 (
One plate, pudding		3 (
Ten places, square Four plates, hand-painted, china One plates, pudding Two plates, bread, fancy Two plates, cake Two plates, child's Two plates, large, meat		1 5
Iwo plates, cake		5
I'wo plates, child's		2
I wo plates, large, meat	[	25
One plate, large, lish	[	$\begin{smallmatrix}2&5\\1&0\end{smallmatrix}$
Four names fancy		$\begin{array}{c} 1 \ 0 \\ 2 \ 0 \end{array}$
One plate, large, fish  Two plates, meat, medium  Tour peppers, fancy  One potato masher, glass		4
One spoon holder, glass  I'welve saucers, fancy, brown  I'wo stands of stone for coffee and teapot  One sugar glass  Four salts, fancy  Due salt large		$\tilde{6}$
Cwelve saucers, fancy, brown		9
Two stands of stone for coffee and teapot		5
ne sugar glass		5
our salts, fancy		1 0
ne salt, large ne soup tureen and ladle		2
one soup tureen and ladle		4 2
Gighteen tumblers, cut-glass		18
Three dozen tumblers, common	07	8 4 3 0
Three dozen tumblers Three vegetable dishes and covers even vegetable dishes, white	10	3 9
leven vegetable dishes white		3 7
Two vinegar cruets		<b>4</b>
Kitchen, House, and Dairy Ware.	{ !	
ne boiler for oatmeal		3 2
One boiler, wash One boiler, meat, iron		2 5
one polier, meat, iron		7
welve basins, agate	50	60
me call-bell, nickel.		$\begin{array}{c} 1 \ 0 \\ 1 \ 0 \end{array}$
ne call-bell, common		25
ne nest cake cuttersix cake cutters, fancy		3
wo cake cutters, pastry		2
wo molds, muffins		1 0
one coffee mill		2 0
ix coffee cans	25	15
wo can openers		ž
wo cake turners (shovels)		7
		1 0

66

#### INVENTORY AT GLEN ELLEN-Continued.

Article.	Cost Price.	Market Value.
Two corkscrews		\$0
Iwo colanders		1 (
I'wo cream cans, large	.   \$7 00	14
Pwo cream cans, large Four dredge boxes Five dippers, tin, assorted		
Phrop dust none		
Firee dust pans.  Two dish pans, large.	6 00	12
Four funnels	- 0 00	1
One griddle .,		1 (
Two graters, nutmeg		
one grater, nutmeg, revolving	.	
ne ice cream freezer	.1	2 8
One kettle, tin, tea One kettle, ten-gallon, brass One kettle, brass, tea		
ne kettle, ten-gallon, brass	.	8 (
ne kettle, brass, tea		2 2 3 (
ne kettle, granite		5 (
wo dozen knives, rubber handles wo dozen knives, wood handles, and forks ne dozen knives, metal handles		2 8
ne dozen knives, wood nandles, and lorks		ĩ
wo pair knives, carving, and forks	1	5 (
wo pair knives, carving, and forkshree knives, butcher		1 2
wo knives, carving	[	- (
wo knives, butter		1 (
ne knife. chopping		(
ive knives, paring wo dozen plated forks hree large flesh forks		1 (
wo dozen plated forks		. 80
hree large flesh forks		1.5
our lids, granite		$\frac{1}{2}$
ne lifter, pie		- 7
wo lemon squeezers		1 0
ne case larder needles ne measure, gallon		5
ne meat.saw		7
ne mill, patent, coffee		2 0
welve match safes, tin		7
x match safes, iron		3
wo milk cans, Swiss orty-eight milk pans	1 00	2 0
orty-eight milk pans		48 0
vo measures, agate		1.5
vo pepper boxes, large		$\frac{4}{4}$
ne potato mashere potato cutter, patent		50
ree pans, for baking		1 2
te pan, for coffee roasting		5
70 pans, copper bottoms		6 Ŏ
ven pans, square, iron		3 5
ven pans, square, iron ght pans, tin, for jelly cake		7
velve pans, tin, for pie		5
e pan, tin, for dishese pan, copper bottom, stew		3
e pan, copper bottom, stew		7
ur pans, agate		8 7
ree pans, galvanized ree pans, large cooking ro preserving kettles, porcelain lined e pick, ice e pick, ice e pitter, cherry e parer, apple		$\begin{array}{c} 2 \ 1 \\ 12 \ 0 \end{array}$
o pans, large cooking ined		60
e nick ice		5
e pitter, cherry		ž
e parer, apple		Ž
o pous, agaic, ica		2 0
o pots, agate, coffee.		3 3
e pot, stone, tea		5
range, kitchen		70 0
e spring scales		1 0
ee slop buckets, tin		1 2
strainers, milk		98
ee sadirons		2 50 25
sugar scoop		1 2
skillets, iron skillets, sheet-iron		1 00
steam mold		50
lve skewers, for meat		20

#### INVENTORY AT GLEN ELLEN-Continued.

ARTICLE.	Cost Price.	Market Value.
Three skimmers		\$0.7
Twelve skimmers, milk		5
Cwo sieves		6
One steamer, tin One stew kettle		1 5
Inc sediron bostor	]	18 0
ne sadiron heater. Lwenty-four spoons, plated, table		80
Ewenty-four spoons, plated, tea		4 0
Fwenty-four spoons, common, tea		8
I wenty-four spoons, common, tea wenty-four spoons, common, table		1.5
Iwo spoons, sugar, plated		10
Six spoons, iron One tea strainer, large		6
Twelve tin cups		3 7
One wrench, small		ģ
one wire meat safe.		4 0
ne water-cooler	1	8 5
one wringer, clothes one washer, hand wo egg beaters		8 5
ne washer, hand		90
'wo egg beaters	- <i></i>	5
Woodenware, Baskets, etc.		
ive nests baskets		1 7
'hree baskets, clothes		2 75 4 00
ne basket, hamper		77
ne basket, wastewelve buckets, wooden	\$0.35	4 2
wo buckets, paper	35	70
wo buckets, paper wo buckets, galvanized iron ifteen brooms, corn		1 0
'ifteen brooms, corn	40	6 0
even brooms, whisk	35	2 4
hree brooms, stable	1 00	3 00
'ive brushes, paint		1 60 3 20
our brushes, whitewash		5 2
ne brush, hemp ix brushes, scrubbing	25	15
ix brushes, shoe		ī š
ix brushes, shoe		1 2
ne brush, crumb, and tray		7
ne brush, crumb, and tray ne brush, long, wall		1 2
ne butter mold	ll	2
ne butter paddle		$\begin{array}{c} 1 \\ 2 \end{array}$
wo butter paddles ne bench at depot		40
ne bowl, oval, wooden		• 6
ne bowl, square, wooden		7
ne carriage step		2 0
ne clothesline		ŧ
wo fly traps		•
ne flower stand		3 (
ne ice chest		10 (
wo ironing boardsne knife and fork, salad, wood		1 8
lighty feet of ladders	95	20 (
wo meat boards	1 20	ı î
ne mold, rice.		$\bar{1}$
en mops, cotton		3 (
x mop handles		1 2
x mop handleswo mops, patent self-wringers ne mold, square		1.5
ne mold, square		1 (
nree dans	.	1 .
wo pails, milkwo pails, milk, with strainers		2
ne potato masher, wood.		
wo pastry boards		1
ne rollingpin		_
our trays		2
	1	4
ne table, dairywo washboards		ī

#### INVENTORY AT GLEN ELLEN-Continued.

ARTICLE.	Cost Price.	Market Value.
Tools and Implements.	İ	
One auger	Ø1 05	<b>\$0</b> 7
Four axesOne bench screw	\$1 25	5 0 1 6
One bench dog		7
Eighteen bolts and nuts		3
one brace and thirteen bits		4 8
Two bamboo extensions		12 0
Two bellows, sulphur	l	16
wo chains, log		2 5
ne corn planter		2 2
One currycomb and brush		7
ne crowbar		95.4
One cultivator Five chisels		25 6 1 5
rive chisels, cold	[	1 2
ne compass		3
Ind cultivator ald	3 1	4 0
ne drawknife		- 6
ixteen drills	20	3 2
wo dusters, sulphur		1 7
ix forks, hay	1	3 3
ne funnel, large	1	1 0
ne glue kéttle	[]	ō
wo gauges ne grindstone and stand		_ 5
ne grindstone and stand		1 5
wo gouges		16
ne glass cuttereven hammers	1 25	$\frac{3}{8} \frac{5}{7}$
wo hammers, tack	1 20	5
ne hand-ax		ğ
wo hatchets		1 5
ne hatchet, round head		5
ifteen hasps, brass	65	9 7
ne hay buck		10 2
even hose, garden	60	4 2
ne hundred and ten feet hose, rubber	15	16 5
ne iron mall		1 5
hree iron clamps		4 5
wo iron stamps		2 0
wo levels		3 2
ne line, chalkne mallet		1
even mattocks	1 25	$\frac{1}{8} \frac{2}{7}$
hree monkey wrenches	1 20	15
ne nail extractor		2 5
ne oiler		2 3
ne oil stone		3
ne pump. sprav		26 0
wo hruning knives	1	2 0
ne pitchfork. ighteen padlocks, Yale		1 0
ighteen padlocks, Yale	1 25	22 5
aree picks		3 0
wo planes, jack		17
vo planes, smoothing		2 1
wo pipe wrenches		56
ne punch, spring		1 0
ne rivet set		1 3
ne rivet cutter.		1 6
our rasps		7
vo rules		. 5
aree reducers, brass	50	1 5
ighty feet rope	04	3 2
wo rakes, iron	45	9
ne rake, wood		5
x saws aggregate		98
ne saw, keyhole		8
ne sawset		7
		7

#### INVENTORY AT GLEN ELLEN—Continued.

Article.	Cost Price.	Market Value.
Four screwdrivers		<b>\$1</b> 50
One spokeshave		. 60
Three squares		1 50
Two pair shears, pruning		5 2
One pair shears, hedge		1 7
One pair shears, sheep One scraper, dirt		1 00 1 00
Two serthes	\$0.55	1 10
Two scythes Two scythe snaths	Ψο σο	1 00
Six sewthe stones		$\bar{1}$ $\bar{1}$
One scraper, dirt. Two sprinkling pots.		1 0
I'wo sprinkling pots		1 2
One ship scraper		1 2
One ship scraper Nine shovels, long handled Five spades, long handled Three sprinklers, lawn Two spray nozzles and forty feet hose	1 00	9 00
Pive spades, long nandled	1 00	5 0
Two spray neggles and farty feet bees	3 W	9 0 9 2
I wo spray nozzies and forty feet nose		1 2
Two stray hozzes and forty feet flose Two steet fraps. Six traps, gopher. Two vises, iron		1 4
Six traps, gopher.		1 1
I'wo vises, iron		15 2
seven vine nooks		7 2
Chirteen vine hoes		10 2
One watering pot	l	1 5
Three watering troughs		12 0
Two wheelbarrows	7 50	15 0
Miscellaneous.		
Eight barrels, water	75	6 0
One boiler, stove		10 0
One bell, institution		19 0
One bell, cow		3
One book on fruit		3 0
One churn		15
Eight fowls, Guinea		32 2 1 3
I'wo horses, work		150 0
One horse, saddle		50 0
D Jan-bla	( 20 00 )	
Two sets harness, double	1 90 00	110 0
rwo balters		3 0
One hive Three lamps, hanging—hall, parlor, and dining-room Two lamps, hanging, prass		4 0
Three lamps, hanging—hall, parlor, and dining-room		19 5
I'wo lamps, hanging, brass		9 0
Six lamps, glass, small		18
Six lamps, glass, small Two lamps, Rochester Two lanterns, blue		9 2
One lanterns, barn		$\begin{smallmatrix}2&0\\1&2\end{smallmatrix}$
ne mail hag	1	55
Eight pigs Four sows One stove, oil.	6 00	48 0
Four sows	10 00	40 0
One stove, oil		. 12 0
		9 5
One stove, parfor		5 5
ne stencil plate and set.		4 0
One stove, parlor One stencil plate and set Two saddles and bridles		46 0
ne sewing machine		29 0
welve tin candlesticks		50.0
One wagon, Bain, farm		50 0
one wagon, three seat, spring		10 0
one wagon, studebaker, farm		70 0 125 0
		125 0
ne whin		14 2
one whip		
Vire trellis		
vne whip		0.0
Mire treflis  Supplies.  Forty jars apricots	20	8 0
One whip		8 0 15 0 12 0

71

### CALIFORNIA HOME FOR FEEBLE-MINDED CHILDREN. INVENTORY AT GLEN ELLEN-Continued.

ARTICLE.	Cost Price.	Market Value.
One hundred jars nectarines, plums, etc.		\$20 0
One hundred jars nectarines, plums, etc	<b>\$</b> 0 10	13 2
Cen nounds dried figs	07	70
Twenty-five pounds dried plums Three hundred and twenty pounds dried apples Two hundred and eighty pounds nails, assorted sizes	08	2 0
Three hundred and twenty pounds dried apples	06	19 20
wo hundred and eighty pounds nails, assorted sizes	05	14 0
one nundred pounds nails, wire	100	5 0
one quart castor oil		40
One gallon olive oil, crude		1 0
Courteen teet from pipe	06	. 8
Twelve pipe fittings Twenty-eight pieces sewer pipe, forty-five feet Two pair window sash Tour pounds solder	30	3 6
Twenty-eight pieces sewer pipe, forty-live feet	20	9 0
Two pair window sash	400	8 0
Thirteen sheets tin		6
Infreen sheets till	10	$\begin{bmatrix} & 6 \\ 2 & 4 \end{bmatrix}$
Twenty-four fruit boxes One hundred and sixty pounds tobacco stems	10	$\begin{array}{c} 2 & 1 \\ 3 & 2 \end{array}$
Five pounds arsenic.		4
Three and one half pounds London purple	25	8
		13 5
Phirty-sight nounds soon	05	1 9
Pwenty-figue pounds sulphur	031	1 8
Phirty-eight pounds soap  Twenty-five pounds sulphur  Fifteen pounds horse hair  One hundred pounds soda	002	4
Ine hundred nounds sods	041	4 5
Pwenty nounds hivestone	$07^2$	14
wenty pounds bluestone live pounds beeswax	0,	17
		5 2
Porty yards hurlan	05	2 0
one hundred and forty pounds notash	061	9 ĭ
Forty yards burlap One hundred and forty pounds potash One gallon turpentine One half pound vermilion Twelve sheets emery paper	V04	10
one half nound vermilion		Š
Twelve sheets emery paper		2
One box rivets		$\bar{2}$
One box rivets Five pounds glue		4
Chirty pounds iron rods		4
Drugs and medicines, estimated		34 0
Thirty pounds iron rods Drugs and medicines, estimated Seventy-eight tons of hay	10 00	780 0
Curtains, etc.		
Cen calico curtains	35	3.5
Ine muslin curtain	• • • • • • • • • • • • • • • • • • • •	l ő
One muslin curtain Fifteen pair long white scrim curtains.	80	12 Ŏ
Vineteen scrim sash curtains	45	8 5
one pair long creton curtains		$\tilde{2}$ 4
Vineteen scrim sash curtains One pair long creton curtains Chree pair short creton curtains		3 0
Aggregate		\$5,789 4
Live Stock.*		
One bull		
Object on a lyon		
wenty heifer calves		
Thirty-three cows		
I wenty-three heifers, three and four years		
Eight heifers, two years		
avan haifare vaarlinge		
Oven Heners, yearings		
Chirty-two steers, three years and upwards		L
Chirty-two steers, three years and upwards Courteen steers, two years and upwards		
Chirty-two steers, three years and upwards Courteen steers, two years and upwards Cight steers, yearlings		
Threef caives Twenty heifer calves Thirty-three cows Twenty-three heifers, three and four years Eight heifers, two years Seven heifers, yearlings Thirty-two steers, three years and upwards Fourteen steers, two years and upwards Eight steers, yearlings		

<sup>\*</sup>This schedule comprises the stock purchased by the Board of Trustees with funds in their hands other than State Funds, and should not, therefore, be made as an offset against any expend-iture on account of maintenance at Gelston until the Board has been reimbursed by the State for the purchase of said stock.

#### EXTRACT FROM THE REPORT OF THE FINANCE AND AUDITING COMMITTEE.

STATE OF ACCOUNTS, ETC., FOR FISCAL YEAR ENDING JUNE 30, 1890.

CALIFORNIA HOME FOR THE CARE AND TRAINING OF FEEBLE-) MINDED CHILDREN, September 23, 1890.

Mrs. Katherine B. Lathrop, President, and the Board of Trustees of said Institution:

The undersigned Finance and Auditing Committee of said Board of Trustees, agreeably to and in compliance with the requirements governing the duties devolved upon us to perform, respectfully report that on the twenty-third day of September, 1890, they proceded to the "Home" at Santa Clara and thoroughly and carefully investigated into the books, accounts, and vouchers of the Superintendent and Secretary of said institution; and, also, the accounts of the Treasurer, as submitted to us up to the first day of July, 1890, and find the same in all respects accurate and correct, and the books well and properly conducted and kept.

We examined all details of receipts and expenditures received and paid out by said institution through its officials, and carefully examined each and all vouchers or receipts for each and all expenditures, and find the same correct. From the account rendered to us by the Treasurer, and filed with the Superintendent and Secretary of the institution, we find the same agree as to the details of receipts and expenditures with the book of our Secretary and Superintendent, and balance agreeably with each other to July 1, 1890.

We have looked over the inventory of assets and find each and every article therein enumerated as set down at their cost price, which is the only and correct way of preparing and submitting such property. It follows that considerable discount would have to be made on the prices named to realize the proper prices on the same by reason of the wear and tear on same.

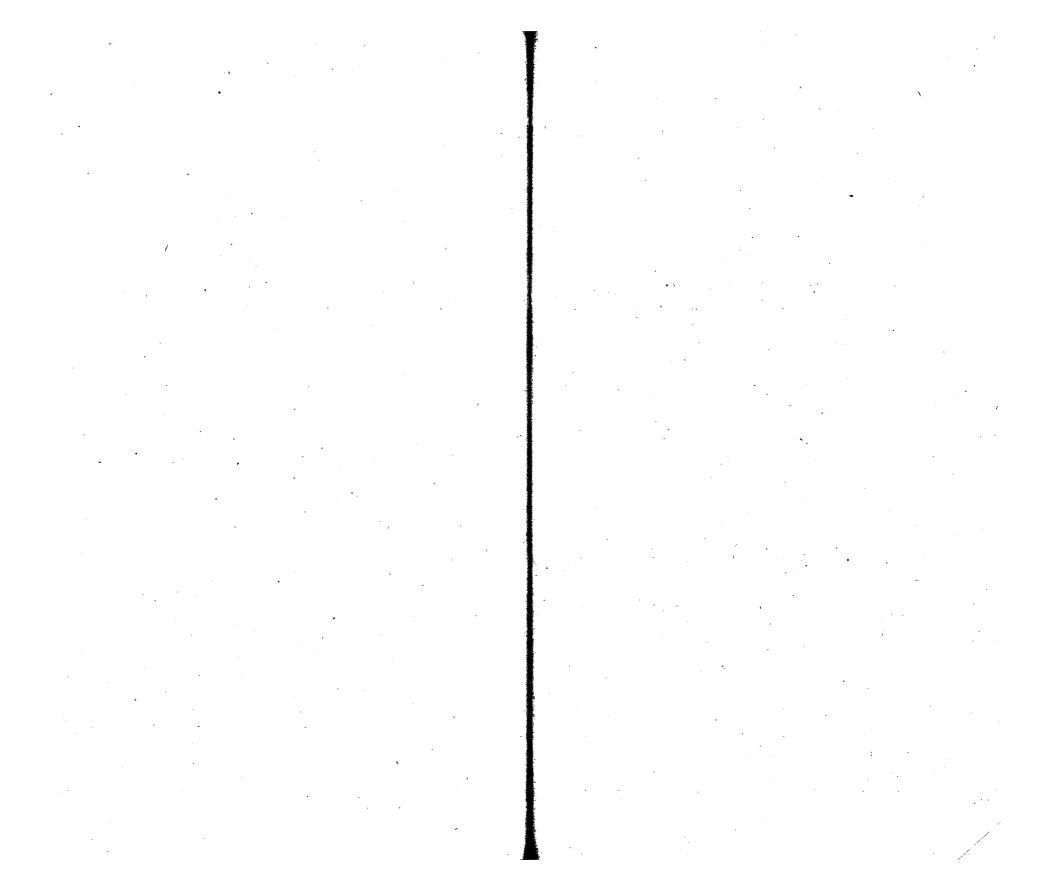
All of which is respectfully submitted.

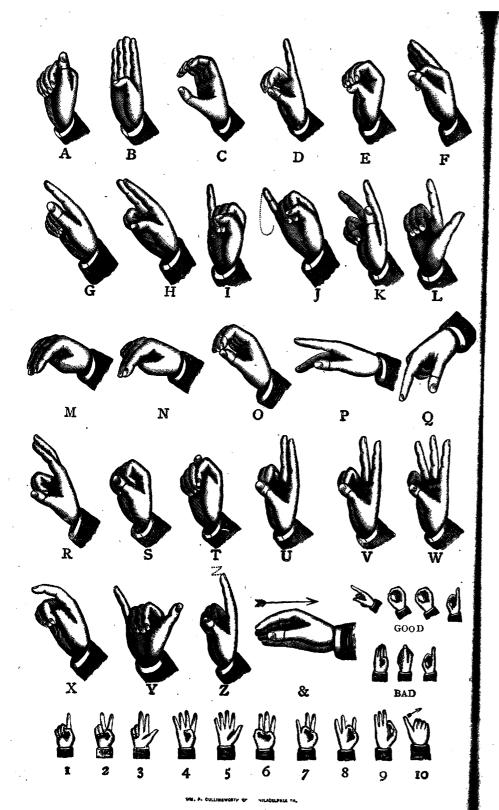
(Signed:)

WILLIAM HARNEY, GEO. W. GIBBS. Finance and Auditing Committee.

All of which is respectfully submitted.

A. E. OSBORNE, Secretary and Superintendent.





## NINETEENTH REPORT

OF THE

## BOARD OF DIRECTORS AND OFFICERS

OF THE

California Institution for the Education

OF THE

# DEAF AND DUMB, AND THE BLIND,

for the

TWENTY-FOUR MONTHS ENDING JUNE 30, 1890.



#### SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING.  $1\,8\,9\,0\,.$ 

## BOARD OF DIRECTORS.

· -	<del></del>
	Oakland
,	Oakland
	Oakland
	Oakland
	OaklandSecretary and Treasurer.
W. L. PRATHER	Secretary and Treasurer.
·	
OFFICERS OF T	THE INSTITUTION.
	TOTAL .
•	NCIPAL.
WARRING	WILKINSON.
TEACHERS OF T	HE DEAF AND DUMB.
GEORGE B. GOODALL, M.A.,	FRANK O'DONNELL.
C. S. PERRY, M.A.,	THEOPHILUS D'ESTRELLA,
THEODORE GRADY, B.L.,	HENRY FRANK,
MISS M. A. DUTCH,	MISS LAURA NOURSE.
TEACHERS O	F ARTICULATION.
N. F. WHIPPLE,	Miss L. MOFFAT.
TEACHER	OF DRAWING.
THEOPHILU	US D'ESTRELLA.
TEACHERS	OF THE BLIND.
CHAS. T. WILKINSON,	MISS ROSE SEDGWICK.
TEACHE	R OF MUSIC.
GEORGE	B. GOODALL.
	Physician
	Clerk
L. W. FLENNIKEN	Supervisor
· MA	TRONS.
Miss M. J. WISEMAN,	
Mrs. A. F. MUNROE,	MISS M. E. SHARR.
C. JENSEN	Foreman Carpenter Shop
	Foreman Printing Shop
	Engineers.

### REPORT.

OFFICE OF THE CALIFORNIA INSTITUTION FOR THE EDUCATION OF THE DEAF AND DUMB, AND THE BLIND, BERKELEY, November 1, 1890.

To his Excellency R. W. WATERMAN, Governor:

Sir: The Directors of the Institution for the Deaf and Dumb, and the Blind, make the following report concerning the trust which has been committed to them. The period covered by this report is two years,

ending June 30, 1890.

The total number of pupils under instruction during the period mentioned has been two hundred and nine. The total number of pupils at the close of the present fiscal year was one hundred and sixty-eight, and at date of report one hundred and eighty-one pupils were enrolled. During the two years covered by this report forty-one pupils have been graduated from the Institution.

The total receipts from State appropriations for the two years ending June 30, 1890, were	\$94,855 12 2,383 83 61 80
Total receipts	\$101,935 16
Total disbursements	\$99,755 99

For a detailed statement of expenditures for the maintenance of the Institution, reference is made to the report of the Principal herewith submitted, and also to the same for a particular statement of the appropriations needed for the efficient conduct of the Institution for the next

two years.

During the last two years the main edifice, known as the Educational Building, has been carried up another story and completed according to the original plan. The completed structure adds a sufficient number of class-rooms together with a convenient assembly-room for all the needs of the Institution for many years to come. The perfection of detail, the symmetry and solidity, and economy of construction have given great satisfaction to the Directors. During the same period another structure, to be known as the Girls' Home, has been completed. It is a plain, solid edifice, admirably adapted to the present needs of the Institution. Both of these buildings have been carried to completion by an expenditure within the appropriations made by the State.

The wisdom of separate structures having plain exteriors, with the utmost security against fire, so harmoniously grouped that the whole, for educational purposes, is a unit, is now beyond question. Here are two institutions requiring totally different methods of instruction, the whole under one supervision, where the success of the union has been

carried to the most satisfactory results.

The question of an adequate water supply has been one of the most

difficult with which the Directors have had to deal. Two years ago an appropriation of \$10,000 was asked, and granted by the Legislature. This sum, it was hoped, would be ample for the increase of the necessary water facilities. At least ten thousand gallons a day, beyond the present available amount, ought to be provided. Soon after the appropriation was made available, it was found that the cost of sinking an artesian well one thousand feet would be not less than \$13,000, this being the lowest tender made. The Directors therefore resolved to try for water by means of a tunnel into the hill in the rear of the Institution, near where two small tunnels were affording a moderate supply of water. The new tunnel was driven nine hundred and seventy-four feet, at a cost of about \$3,000, when, not finding any water, the work was suspended. There is good reason to believe that an adequate supply of water can be obtained from an artesian well driven to a depth of from one thousand to one thousand five hundred feet; for this purpose the Directors ask for an additional appropriation of \$10,000.

INSTITUTION FOR THE DEAF AND DUMB, AND THE BLIND.

It gives the Directors pleasure to state that, beside the substantial improvements made during the last two years, the buildings and grounds have been kept in perfect order, and that the internal management of the Institution has been efficient and altogether satisfactory.

Respectfully submitted.

WM. C. BARTLETT, President.

### REPORT OF THE PRINCIPAL.

To the Board of Directors of the California Institution for the Deaf and Dumb, and the Blind:

GENTLEMEN: I have the honor herewith to submit the biennial report and papers, which give in detail the history and operations of this school during the two years ending June 30, 1890:

#### NUMBER OF PUPILS.

DEAF AND DUMB.

The movement of pupils has been as follows: On the rolls June 30, 1888:

DEAF AND DUMB.	
Girls	77 16 123
BLIND.	
	15 15 30
Total both classes	153
The admissions since the same date have been as follows:	
DEAF AND DUMB.	
Boys	
BLIND.	- 44
Boys.	1 1 - 12
Total admissions	56
Total under instruction	209
There have been graduated and discharged during the two years:	
DEAF AND DUMB.	
Boys	20 1 - 31
BLIND.	- 31
Boys	R
Girls	4 - 10
Total deductions	41
On rolls June 30, 1890	168
Admitted since opening of school	18
Discharged since opening of term	5 181

#### HEALTH.

It is gratifying to report that the two years have gone by with no death among either pupils or employés. One little boy, who had always been subject to rheumatism, went home, and some months afterwards died of heart disease. The health of the pupils has also continued good. A few cases of scarlet fever, and many cases of the prevailing "grippe," which was epidemic during the past winter, comprise all that is worth recording, and from these ailments the children who were attacked recovered without any evil consequences.

It is not often in the life of a school of this sort that two years elapse without the corps of teachers being modified either by death, resignation, or health failure; but it is my good fortune to be able to say that the officers of the Institution and heads of departments have not been changed in any respect since the date of the last report, except to add the name of John Trevethan as engineer. The employment of this additional help in that department became necessary when cooking by steam and the electric light plant were introduced.

#### THE SCHOOLS. .

The work of the class-room during the past two years has been satisfactory, and shows good results in the intellectual progress of the pupils, and, in what is of higher significance, the development of character. No new methods have been introduced, because new methods in the instruction of the deaf are not likely to be found.

There are new applications and ingenious devices for increasing the efficiency of the means already used, and the results obtained show a vast improvement over the outcome of the schools fifty or a hundred years ago; but since De L'Epee adopted the sign language, and Heinecke adopted articulate speech, as the instrument of instruction, the work has been pushed along those two lines of endeavor.

There will probably always be honest differences of opinion as to the merit of what has come to be known as the French and the German systems. There is a popular belief that lip-reading and articulation are great helps in aiding a deaf person in obtaining employment, and that he is to be restored to society and its multitudinous voices by the same means. Whether this belief is well founded cuts no figure in the case. I think, however, it has had an important influence in bringing about the great revival which the German system has undergone during the last thirty years in this and other countries. Whenever and wherever the use of a man is considered more important than the man himself, then and there that system of training will prevail which is supposed to increase his commercial value. Whenever and wherever a man is considered superior to any use he may be put to, then and there education will be based on broader grounds and tend to develop manhood and character rather than handcraft and mechanics. The former theory has prevailed on the continent, and it cannot be denied that something of the same spirit is abroad in our own country. Fault has been found with our public system because the teaching is not practical enough. There is much to be said on both sides of the question, but this is not the place for its discussion, and I allude to it merely to indicate what I believe to be one of the causes that has brought about the extraordinary

interest for the last quarter of a century in the German system which, so far from being new, is as old as deaf mute instruction.

#### IMPROVEMENTS.

During the period covered by this report there have been more improvements made in the physical development and equipment of the Institution than within any two years of its existence.

First and foremost in the order of importance is the completion of the Educational Building, according to the plan made out many years ago. The whole structure has been carried up another story, and with the tower one hundred and sixty feet high now presents a plain but dignified appearance. The additional floor is divided into school-rooms, art-rooms, and the fine assembly hall, which is one hundred and twelve feet long by fifty-two feet wide. This room is the special pride of the Institution. Its beautiful proportions and graceful architecture excite the admiration of all visitors. It has been furnished with six hundred and sixteen opera chairs with folding seats, and carefully arranged to give easy and unobstructed view of the stage platform. Under the gallery is a space thirty by forty feet, to be devoted to library purposes, and with the room now in use will afford shelving for five thousand books. The cases will be built this year by the boys of the cabinet shop, and from plans already prepared by Messrs. Wright & Sanders. The north end of the building is devoted to the art department. Two rooms of ample dimensions, thirty-six feet by twenty feet, and thirty feet by twenty feet, connected by sliding doors, and with broad skylights, offer excellent facilities in a line of work that is every year becoming of larger importance. Solid shutters to the windows, instead of the ordinary slat blinds, and roller curtains under the skylights, enable the teacher to manage the light as best pleases him. The easels, stands, drawing boards, cases for materials, etc., are all of home manufacture, and have thus been obtained with little expense to the Institution. The south end of the building is devoted to class-rooms, and the old assembly hall on the first floor has been divided and put to the same use.

At present writing the new Home for the girls is not finished, although it is expected to be in occupation before the Legislature meets. The house is built in the same plain, substantial manner as the other Homes, though somewhat improved in its architectural effect by putting the fire-escape in the form of a round tower on the corner, and a square, granite-capped bay in front. The fireproof features of construction have been kept in view, and the general arrangements for the comfortable home-life of the pupils have been carefully studied.

An appropriation of \$2,000 was made by the last Legislature for a new boiler and apparatus for steam cooking. This sum has been expended with most satisfactory results. A forty-one horse-power water-tube boiler has been purchased and put in place with a Llewellyn heater for purifying the water and returning it at almost boiling point to the boiler. The devices for heating water for the laundry and kitchen use have been reconstructed, and dependence on the range for this supply has been done away with. Two soup kettles, a mush boiler, two vegetable steamers, and coffee and tea boilers have been placed in the kitchen, and all connected with the engine house where steam is generated for all uses. The condensed steam is saved and run into one of

11

the large cisterns, whence the water is pumped back to the reservoir on the hill. The preparation of food for the table by the apparatus introduced has not only been much facilitated, but the quality of it has been greatly improved.

INSTITUTION FOR THE DEAF AND DUMB, AND THE BLIND.

It was with some hesitation that I asked the last Legislature for \$1.000 with which to test the experiment of electric lighting. A fortylight plant was intended, enough for three sitting-rooms and the dining hall. The Board resolved to install a seventy-five-light plant, with additional lamps to the number of one hundred and twenty. This machinery has been running since the first of the year, and with such regularity and satisfaction as to put the matter beyond the domain of experiment.

The electric light has come to stay. Its convenience, steadiness, comparative lack of heat, and safety, make it a necessary part of the equipment of a school like this. There are only two questions to be considered on the other side, namely: economy, and the danger of being suddenly left in darkness by the failure of the machinery at any time. The latter objection is now overcome by introducing the storage batteries, which seem to do all that is claimed for them. I have made some careful experiments to test the cost of the light, and am led to believe that it is cheaper than gas, even as we make it. The engineer weighed out four hundred pounds of Wellington screenings that cost \$7 45 per ton of two thousand two hundred and forty pounds, or \$1 33 for four hundred pounds. With this he ran seventy lights of sixteen candle-power for four hours and twenty minutes, or a cost for coal of .4 of a cent an hour for each light. This is almost as cheap as coal oil. Of course there is to be added the wear and tear of machinery, the breakage of lamps, and the cost of attendance; but, with a larger plant these items proportionately decrease, and I am satisfied that it would be a measure of economy to install a plant of sufficient capacity to light the whole Institution, and thus do away with the use of gas.

In order to place before the Legislature a definite idea of the cost of this improvement, I have asked for and received a proposal from the United Edison Electric Light Company for a complete system, including engine, wiring, sockets, cut-outs, lamps, dynamos, etc., for all the buildings of the Institution, and delivered in perfect order. Their bid is as follows:

For Ball automatic engine and steam piping	\$950 1,997
(Pote)	#0.050

The company also agree for \$2,106 additional, to place in position with all proper connections, a system of storage batteries of sufficient power to run sixty lights each of sixteen candle-power, for ten hours. There are several advantages claimed for the storage battery, and apparently on good grounds. Its use enables the engineer to lav up during the day a supply of electricity for night use at a great saving in attendance and of fuel. It offers a safeguard against the danger of being left in darkness by a sudden or momentary disarrangement of the machinery. It makes possible the running of certain lights which, in an establishment like this, must be kept burning all night. It is also said to improve the steadiness of the whole system. I strongly recommend an appropriation for this purpose, and request the Legislature to inquire into the advantages of such an improvement.

#### THE STRAUSS CLOCK.

Another most valuable equipment to the Institution is a clock placed in the tower of the Educational Building, and with striking attachments and bell, weighing one thousand pounds. This has been in use only since last January, but so necessary has this timepiece with its accurate marking of hours and half hours, come to be to the life and comfort of the household, that it is a wonderment how we lived without it. The clock was built by the Seth Thomas Clock Company, and is of the finest workmanship. It has four dials, runs for eight days without winding, and is guaranteed for five years not to vary fifteen seconds in a month. As a matter of fact, it has not varied ten seconds a month for the past six months. This useful piece of machinery has been obtained without cost to the State. Some years ago the late Louis Strauss, of San Francisco, left by will the sum of \$5,000 to the Institution for the Deaf and Dumb, and the Blind, coupled only with the restriction that the principal should be invested in mortgage on San Francisco property, and should not be impaired. From the accumulated interest of this sum, the Directors appropriated \$1,375 for the purchase of the machinery, and in grateful remembrance of the donor of the fund, they have called it the "Strauss Clock," and have had a suitably engraved plate attached to the frame commemorating this fact.

And this leads me to speak of a great advantage which a permanent and growing fund affords to the Directors of a school like this in enabling them to devise and to do many things that are not strictly within the province of the State. By this means they can found scholarships, loan money to deserving graduates, give outfits for a start in life, and, when exceptional talent is exhibited by pupils, offer them pecuniary assistance which may be needed for its development either at home or abroad. I think it would be difficult to estimate the full measure of benefit which has been derived by the Institution and its pupils from the money left by Mr. Robert Durham, of Butte County, and Mr. Louis Strauss, of San Francisco. The original sums paid into the treasury of of the Institution by the executors of those two generous men were as follows:

#### DURHAM FUND.

From the estate of Robert Durham, after deducting all expenses		
Total proceeds Expended for various purposes benefiting the Institution and its pupils	\$66,413 20,046	95 40
Amount of fund to date	\$46,367	55
STRAUSS FUND.		
Received from the estate of Louis Strauss	\$5,000 2,454	
Total proceeds         \$1,875 00           Expended for clock         \$256 95	\$7,454	90
Total expenditure	2,331	95
Amount in fund at date	\$5,122	95

In spite of the large sum put out in various ways and places where it will do most good, and aggregating a total of over \$22,375, these two funds have grown from \$38,673 83 to a total of \$51,490 50; and still, year by year, the bequests are accomplishing their beneficent work, and the prin-

INSTITUTION FOR THE DEAF AND DUMB, AND THE BLIND.

cipal is increasing at the same time.

In this connection it may not be out of place to refer to the success of Mr. Douglas Tilden, who has been enabled to pursue abroad his art studies through the means which the Directors wisely set apart for his use from the Durham Fund. Mr. Tilden has been in Paris only two years, but has had two works accepted and exhibited at the French Salon; and for his second statue, "The Tired Boxer," he received the award of "Honorable Mention," which is the highest honor an American sculptor has ever obtained at the hands of the French Committee.

We mention this incident to illustrate the value of a fund under the control of the Directors. Here was a young man of exceptional talent, but of limited means, who would probably have spent the best, perhaps all, the years of his life in simply earning his daily bread, and yet by judicious help afforded him at a time of need, an honorable, perhaps great, career is brought within his reach. By appropriation from the same fund, Mr. D'Estrella, a graduate and teacher, was sent abroad in the interests of the Art Department, and brought back with him a vast amount of interesting information, which he has been imparting to the pupils ever since. At the present time the Directors are paying the expenses at the San Francisco Art School of a young deaf mute, who gives great promise of eminence as an artist. It may yet be thought best to send him abroad for larger facilities and better instruction. If so, the the Directors have the means to carry out what their judgment dictates.

It gives me pleasure to note an instance of generous liberality on the part of Messrs. Wright & Sanders, architects of San Francisco, by which an important addition is about to be made to the equipment of the Institution. Soon after the fire in 1875, these gentlemen donated \$750, the amount of their commission on the building erected at that time, towards the purchase of a pipe organ. The money was placed at interest, and now amounts to \$1,700. They have added \$800 to this sum, and have ordered a \$2,500 organ, which is in process of construction, and will be put in place in the new Assembly Hall before this report is printed. By this means the resources of the blind pupils will be enlarged, and their happiness increased, and Messrs. Wright and Sanders are entitled to the grateful remembrance of the blind for this timely and useful gift.

Through the generosity of Mr. Albert Bierstadt, of New York, the Institution has received a fine specimen of the work of Vidal, the celebrated blind sculptor. This is a bronze horse, modeled with great skill and truthfulness. It is not only a beautiful ornament, but is a constant reminder of what may be accomplished under difficulties, and thus is a stimulus

to the blind and the deaf to high endeavor.

After the disastrous fire of 1875, which turned the whole household out into the night in a single hour, the Directors adopted a system of segregated buildings which would render such a loss of property impossible. From year to year the work of reconstruction has been going on, till now the plan is completed, with the exception of the third Home for the boys. It will be necessary for the Legislature to make an appropriation of \$50,000 to erect this building. When finished, the State will have a property which is worth more than it cost, and of which Mr. Fred H. Wines, Secretary of the Illinois State Board of Charities, wrote: "The school is, in its way, a gem-probably the most perfect in

respect to its general arrangement and the admirable balance of all its parts that I have ever seen." The wisdom of adopting a plan of segregated buildings becomes more and more apparent with the lapse of years. Instead of a large structure liable, as before, to sudden wiping out by fire, we have a group of buildings so separated as to make a great loss practicably impossible. The homes are, to all intents and purposes, fireproof. The segregation of pupils reduces the discipline to something like that of the fireside. The health of the household is vastly improved. The tendency to disorder and insubordination is checked. The danger from epidemics is largely decreased. The problems of light and heat and ventilation are simplified, and while the cost of maintenance is perhaps slightly increased, the advantages in every way more than compensate this item.

We have been reminded on several occasions of the need of a hospital, where cases of contagious disease may be segregated and treated with safety. In a family as large as this, there will always be a percentage of sick who require the care of a special nurse, and the conveniences of a well arranged hospital. Scarlet fever, smallpox, measles, diphtheria, and severe fevers are liable to break out at any time, and at present we have no adequate equipment with which to fight them. I trust, therefore, that provision will be made by the coming Legislature to erect a small building, to cost about \$2,500, where sick children may be cared for with comfort to themselves and safety to the rest of the household.

The income and expenditures of the Institution, during the two fiscal years ending June 30, 1890, have been as follows:

RECEIPTS.		
From balance, June 30, 1888	\$4,634 43 94,855 13 2,383 83 61 80	L 2 3
Total receipts		\$101,935 16
DISBURSEMENTS.		
For salaries and wages For groceries and provisions For clothing For furniture For building and repairs For fuel and lights For fuel and dairy For stable and dairy For miscellaneous expenses For industrial department For articulation department For salary of Secretary and Treasurer	\$49,974 18 15,234 16 1,298 61 2,536 44 4,618 46 9,839 44 2,195 97 5,095 75 3,049 41 3,038 30 1,875 00 1,000 00	
Total disbursements		<b>\$99,755 99</b>
Balance June 30, 1890.	<b></b>	\$2,179 17

The details and items of expenditures will be found in the Principal's dissections herewith submitted.

For the first time in four years, I am obliged to ask for an increase of appropriation for support during the next two years. The increase of pupils continues with that pitiless certainty which characterizes the law of averages. Young and prosperous States have not only the natural increment of population to provide for, but also the additional numbers which come by immigration. California, by her vast and developing

resources, is attracting many settlers from the States east of the Rocky Mountains. They come with all their belongings, but their first and tenderest care is for those children upon whom the burden of deafness and blindness is laid. Good parents, and of such are made the best citizens, would not move to a State where no provision is made for such unfortunate children as they may have, and this accounts for the many letters of inquiry I receive from residents of other States concerning the opportunities afforded in California for educating the blind and deaf. We have had an average attendance of one hundred and seventy-one pupils during the term just closed. The per capita cost has been \$291 69. I respectfully recommend, therefore, that the Board ask the Legislature for an appropriation of \$51,300 for the fiscal year ending June 30, 1892, and of \$53,000 for the year ending June 30, 1893. These figures are based upon an estimated attendance for the first year of one hundred and ninety pupils, and of two hundred pupils the second year, at a per capita of \$270 and \$265, respectively. With the increase of numbers, the per capita cost decreases till it reaches a minimum of about \$250, which is as low as can ever be expected. This is the sum which the State of New York allows for each of its fifteen hundred pupils, where the wages of servants is little more than half the rate of pay for similar service in California.

It is sometimes said by those who have not taken the pains to examine the school and its work, that it costs a great deal to support the Institution and requires a seemingly large extent of housing. This is true, and it may not be out of place here to give the reasons for it. And let me begin by setting forth the material we work with, and what we seek to do with it.

Without education the deaf mute is not only a useless member of the body politic, but often a dangerous character. Ignorant of human or divine law, and uninstructed in the use of his hands, he naturally gravitates to the poor house or the prison; to the latter, however, only as a measure of safety to the citizen, for no Court has ever inflicted confinement or execution as a punishment for murder or crime committed by an uneducated deaf mute. But whether he goes to the almshouse, to the jail, or wanders aimlessly about the country, in any case he is either an active danger or a dead weight for society to carry. Now it is this useless, often dangerous material that the Institution deals with, and attempts to convert into useful, productive citizens. To bring about this result involves a somewhat complicated domestic establishment and educational machinery, because a whole and symmetrical man or woman is to be developed out of the child that comes to us. For a great portion of many years the Institution is to its pupils home, school, and shop. We have not only to provide for both sexes, but for two classes of each. The blind are as far apart from the deaf in their methods of instruction, as both are from normal children. Separate apartments, special teachers, and peculiar apparatus have to be provided for those whose senses of touch and hearing must do the work of the eye. In short, we are carrying on two institutions under one management. All special work is expensive, and the work here is not only special but varied. Classes are necessarily small, and the number of teachers correspondingly increased. A large number of our pupils have to be taught speech and lip reading, and this requires additional and special teachers and rooms. Music must be taught to the blind, both as a means of livelihood and as a

resource of enjoyment. In these days the many applications of pictorial and plastic art to the industries of life make the facile use of the pencil and brush an important aid to success. Especially is this true of the deaf, and so an art department is a necessary function of a well equipped school of this sort. Whether trade schools are a proper and necessary part of the public school system may be questioned, but there is no doubt that instruction in mechanic arts is an indispensable adjunct to the work of an institution for the deaf and dumb. There is no time after the pupils leave school to go through the needful apprenticeship, and nobody will take the trouble to teach boys who cannot hear the intricacies of a handcraft. The training of the shop and the class-room must be carried on simultaneously, and both under the guidance of experienced teachers. Girls, also, must be fitted not only for the intellectual duties of life, but for the discharge of those domestic functions that properly belong to women, whether as managers of their own household or in families for hire. To this end, a cooking school has been established and shops for wood working and printing fitted up for the training of our boys and girls, so that they may be prepared at once to earn their own livelihood, and add something to the productive forces of the community when they have finished their time in school.

From all this it will be seen how complicated and comprehensive is the conduct of a school for the deaf and the blind, which, under the segregated plan of building, ought to comprise, first, a home for deaf boys; second, a home for deaf girls; third, a home for blind boys; fourth, a home for blind girls; fifth, a refectory; sixth, a school for deaf pupils; seventh, a school for blind pupils; eighth, a music department with teaching and practice-rooms; ninth, a department for the teaching of speech and lip reading for the deaf; tenth, an art department; eleventh, a hospital where the sick may be cared for; twelfth, a cooking school; thirteenth, a mechanic arts school; fourteenth, a gymnasium where the physical interests of the pupils may be looked after, and care taken that they do not leave us with health or body impaired by neglect or ignorance.

All these diverse functions require much room and cost much money; but, taking into account the material we work with, and the results obtained, I do not know of any investment that pays the State so well.

By an oversight there was no provision made by the last Legislature for the heating apparatus of the new school building and the Girls' Home. The first cost \$1,300, and the second cost \$740, making a total of \$2,040, for which sum the Legislature should be asked to make an appropriation. The wants of the Institution for the next two years may be summarized as follows:

For support, including the articulation and mechanical departments	\$104,000	00
For additional Boys' Home.	50,000	<b>00</b> :
For electric light plant	2,952	00
For heating apparatus	2,040	<b>00</b>
For hospital	2,500	00

These sums are all needed for the purposes specified, and, judiciously expended, will complete the Institution and provide for its support till the thirtieth of June, 1893.

#### ACKNOWLEDGMENT.

The pupils of this Institution are under great obligations to Mr. A. N. Towne, Vice-President and General Manager of the Southern Pacific Railroad Company, for favors extended to them in the way of free transportation to and from their homes. For years the kindness of Mr. Towne has been unremitting and unbounded, and the children owe him a debt of gratitude it is impossible for them to pay.

The favor of half fares granted by the Pacific Coast Steamship Company to the pupils, who live at the coast towns, is also gratefully acknowledged. The thanks of the officers and pupils are also due to the Directors of the Mechanics' Institute for invitations to the fairs held at the Pavilion in San Francisco from year to year. The days spent there

are always full of pleasure and profit.

I also desire, in behalf of the pupils, to extend grateful appreciation for the services of Drs. Merriman & Son, the eminent dentists of Oakland, who have relieved so many cases of distress without charge.

In closing this report, it may not be amiss to note the fact that it also rounds out and completes a period of twenty-five years' service on the part of the writer. In 1865 I was called from New York to take charge of the Institution, then located in two cheap buildings on the corner of Fifteenth and Mission Streets in San Francisco. The accommodations were poor and the facilities for carrying on the work meager and inadequate, even for the small number of pupils then housed within its walls. An Act providing for a new site and building was passed by the Legislature in 1866, and under the terms of that Act the present beautiful location secured, and a stone structure erected, to which the school and household were transferred in October, 1869. On the seventeenth of January, 1875, the work of ten years went up in flame, and the wearisome labor of reconstruction began. For fifteen years it has been going on, and to-day we stand on the verge of completion.

In looking back over the quarter of century of service, I forget all the discouragements that at times have beset my path, and think only of the words of cheer and generous support that have lightened every burden and made labor among the people of California a delight. I am happy in the belief that I have had the confidence of every Governor under whose administration I have served. From the members of the various Legislatures who have had to do with appropriations, I have received the most courteous attention, and generous response to all my appeals on behalf of the deaf and the blind. But my greatest good fortune has been in the unselfish Directors, who from time to time have been appointed to the management of this Institution. With scarcely an exception, they have been men of the highest character, wise and conservative, sympathetic and cultured. To their prudent counsel and unfailing support is due whatever of success has attended my administration; and to none of them do I owe more than to you to whom this report is addressed. You have given your time to the service of this Institution, without stint and without reward; your counsel has ever been at my command, and your cooperation and confidence have made the duties of my office comparatively easy. In the hope that I may always prove worthy of the generous kindness you have extended to me, this

Respectfully submitted.

WARRING WILKINSON, Principal.

## ADDENDUM.

The following papers have been sent to the Institution for the use of the pupils, and for which thanks are hereby tendered: Alta California, San Francisco; California Voice, Los Angeles; Deaf-Mute Journal, New York: Mutes' Chronicle, Columbus, Ohio: Goodson Gazette, Staunton, Virginia; Deaf-Mute Advance, Jacksonville, Illinois; Deaf-Mute Hawkeye, Council Bluffs, Iowa; Deaf-Mute Mirror, Flint, Michigan; Mute Journal, Omaha, Nebraska; Deaf-Mute Optic, Little Rock, Arkansas; Mutes' Companion, Faribault, Minnesota; Deaf-Mute Times, Delevan, Wisconsin; Kansas Star, Olathe, Kansas; Daily Paper for Our Little People, Rochester, New York; Texas Ranger, Austin, Texas; Deaf-Mute Record, Fulton, Missouri; Silent Observer, Nashville, Tennessee; Deaf-Mute Voice, Jackson, Mississippi; Deaf-Mute Bulletin, Frederick City, Maryland; Register, Rome, New York; Tablet, Romney, West Virginia; Kentucky Deaf-Mute, Danville, Kentucky; Auralist, Chicago; Colorado Index, Colorado Springs, Colorado; Silent World, Philadelphia, Pennsylvania: Dakota Advocate, Sioux Falls, South Dakota; Silent Worker, Trenton, New Jersey; Sign, Salem, Oregon; Clionian, Portland, Oregon; Silent Educator, Flint, Michigan; Deaf-Mute Critic, Dubuque, Iowa; Deseret Eagle, Salt Lake City, Utah; Silent Hoosier, Indianapolis, Indiana; Deaf-Mute Pelican, Baton Rouge, Louisiana; Herald, Berkeley; Advocate, Berkeley; Bumble Bee, Alameda; Sioux, Red Field College, South Dakota; Evening Post, San Francisco; New Method, Englewood, Illinois.

## PRINCIPAL'S DISSECTIONS OF EXPENDITURES FOR TWENTY-FOUR MONTHS ENDING JUNE 30, 1890.

#### GENERAL FUND.

#### Groceries and Provisions.

41,000,000 41,00 2,100,000	
Ammonia	<b>\$4</b> 30
Apple butter	20 40
Bacon, 807½ pounds	96 91 88 97
Apple butter Bacon, 807½ pounds Baking powder, 16½ dozen Bath brick, 4 dozen	2 30
Beans, 3,227 pounds	86 39
	75
Borax, 5 pounds Breakfast Gem Butter, fresh, 8,868 pounds Butter, pickled, 798 pounds Callustro Canned goods, 304 dozen Capers, 2 dozen Carb, soda, 36 pounds Cabess, 1 2691 pounds	7 00
Butter, fresh, 8.868 pounds	1,998 68
Butter, pickled, 798 pounds	239 40
Callustro	11 37
Canned goods, 304 dozen	527 25
Capers, 2 dozen	$\begin{array}{ccc} 2 & 90 \\ 2 & 64 \end{array}$
Change 1 0001 manuals	155 65
Chicomy 576 pounds	39 25
Chocolete 108 nounds	27 30
Cinnamon	70
Citron, 20 pounds	5 00
Cocoa, 48 pounds	19 20 ·
Cocoanut, 26 pounds	7 70
Coffee, 2,219 pounds	508 20
Cooking wine, 8 gallons	23 50
Corn meal, 1,450 pounds.	$\begin{array}{c} 30 \ 90 \\ 21 \ 12 \end{array}$
Corn starch, 230 pounds	156 13
Crackers, soda, 2,454 pounds	79 98
Cream of tarter 24 pounds	7 92
Crushed Indian 160 rounds	9 25
Currents, 176 pounds	13 50
Curry, 3 bottles	50
Eggs, 1,641\(\frac{3}{4}\) dozen	449 34
Extracts, 20 quarts	<b>24</b> 80
Farina, 100 pounds	4 19
Capt. soda, 36 pounds. Cheese, 1,262½ pounds. Chicory, 576 pounds Chicory, 576 pounds Chocolate, 108 pounds Cinnamon Citron, 20 pounds. Cocoa, 48 pounds. Cocoanut, 26 pounds. Cocoking wine, 8 gallons. Corn meal, 1,450 pounds. Corn starch, 230 pounds. Crackers, soda, 2,434 pounds. Crackers, sweet, 852 pounds. Crackers, sweet, 852 pounds. Crushed Indian, 160 pounds. Curry, 3 bottles Eggs, 1,641½ dozen Extracts, 20 quarts Farina, 100 pounds Fish, fresh Fish, salt Flour, white, 362 barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels Flour, graham, 6½ barrels	112 85
Fish, salt	102 11
Flour, white, 362 parrels	$^{1,621}_{28}$ $^{10}_{40}$
Fruit dried 2 980 pounds	250 19
Durit face	404 37
Gelatine, 7 dozen Ginger, 15 pounds Ham, 643 pounds Hominy, 164 pounds Hops, 43 pounds Hops, 43 pounds Honey Horsgradish	9 94
Ginger, 15 pounds	2 70
Ham, 643 pounds	91 74
Hominy, 164 pounds	9 80
Hops, 43 pounds	9 70
Honey	50
Horseradish Lard, 2,340 pounds Macaroni, 548 pounds Made	90 231 23
Macaroni 548 nounds	38 92
Mace	50
Malt, 50 pounds	1 75
Malt, 50 pounds	3,883 67
Molasses, 1184 gailons	64 06
Mustard 60 nounds	9 25
Nutmeg Oatmeal, 1,460 pounds Oats, rolled, 910 pounds Olive oil 171 down	10
Oatmeal, 1,460 pounds	$\begin{array}{c} 47 \ 01 \\ 62 \ 73 \end{array}$
Olive oil 171 dozon	74 18
Pearl harley 195 nounds	4 45
Peas. 150 pounds	3 75
Peas, split, 75 pounds	3 63
Pepper, 108 pounds	21 50
Pickles	56 25
Potatoes, 55,866 pounds	805 72
Polity	242 09
Raisins, 100 pounds	$15 75 \\ 102 33$
Oats, rolled, 910 pounds Olive oil, 17½ dozen Pearl barley, 125 pounds Peas, 150 pounds Peas, split, 75 pounds Pepper, 108 pounds Pickles Potatoes, 55,866 pounds Poultry Raisins, 160 pounds Rice, 1,902 pounds Sago, 60 pounds	102 55 3 65
Nago, vo poundo	3 00

INSTITUTION FOR THE DEAF AND DUMB, AND THE	E BLIND.	19
Saleratus 60 nounds	<b>\$4</b> 68	
Sal soda, 1.930 pounds	32 28	
Salt, coarse, 2.156 pounds	13 47	
Salt, table, 5,703 pounds	46 62	
Saleratus, 60 pounds	3 50	
Sapolio, 30g dozen	21 70	
Sauce, o nozen	ZZ 40	
Silicon, 4 dozenSoap, brown, 5,480 pounds	$270 \ 25$	
Soap, white, 1,120 pounds	110 02	
Soap, toilet	16 15	
Sugar, brown, 5,276 pounds	328 80	
Sugar, cube, 851 pounds	66 58 46 66	
Sugar, cubed, 631 pounds Sugar, crushed, 632 pounds Sugar, golden C, 4,170 pounds Sugar, granulated, 9,168 pounds Sugar, powdered, 480 pounds Syrup, 342 gallons Tagliarini, 47 pounds Tagliarini, 47 pounds	256 32	
Sugar, granulated, 9,168 pounds	680 49	
Sugar, powdered, 480 pounds	41 52	
Syrup, 342 gallons	80 24	
Taglianni, 47 pounds	3 45	
Tapioca, 120 pounds Tea, 439½ pounds	7 38 111 35	
Thyme, sage, etc.	11 58	
Vegetables Vermicelli, 124 pounds Vinegar, 195 gallons	24 76	
Vermicelli, 124 pounds	9 97	
Vinegar, 195 gallons	25 62	
Yeast	4 15	\$15,234 50
Salaries and Wages.	naa aa= AA	•
Principal and teachers Physician, clerk, and matrons Servants and services	7 490 00	
Servants and services	12 657 12	
Treasurer	1,000 00	
Clothing.		50,974 18
Boots and shoes, 89 pairs	@1.45 EO	
Buttons	\$145 50 12 45	
Clothes brushes	3 50	
Collars	1 50	
Combs, 10 dozen	10 30	`
Dress goods	41 80 19 00	
Dressmaking Gossamers, 5	5 65	
Hair brushes, 4 dozen	15 75	
Handkerchieis, 10 dozen	6 60	
Hats, 27		
Hose, 9½ dozen Marking ink, 3 dozen	23 65 6 00	
Nail and tooth brushes, 7 dozen	11 63	
Neckties	3 25	
Pants, 25 pairs Pins and needles	37 25	
Pins and needles	8 91	
Repairing shoes	429 20 7 25	
Repairing hair clippers	11 84	
Shirts, 3½ dozen	30 00	
Shoe laces	6 85	
Silesia	30	
Suits clothes, 39.	$\begin{array}{ccc} 267 & 00 \\ 6 & 75 \end{array}$	
Suspenders, 3 dozen	17 20	
Shoe brushes, 6 dozen	17 40	
Thread	42 14	
Trimmings	31 13	
TrunkUnderwear	3 25 52 81	
Furniture.		1,298 61
Baskets.	<b>\$19 90</b>	4
Bedsteads, 7	42 00	
Bedticking	17 79	
Blankets, 34 pairs	131 50 78 33	
Calico, 379% vards	19 74	
Brooms, 193 dozen Calico, 3792 yards Carpets and lining	301 30	

Carpet cleaning Chairs Clocks, repairing Flannel	<b>\$</b> 75 29	
Clears	77 50 18 40	
Flannal	8 50	
Glassware, crockery, and cutlery	267 70	
Curtains and curtain goods	66 11	
Glassware, crockery, and cutlery Curtains and curtain goods Dust and floor brushes, 64 dozen	52 33	
DOSE DADS	2 50	
Feather dusters Hair for mattresses, 150 pounds	3 96 85 50	-
Kitchen utensils	1 60	
Looking glass	5 00	
Mats and matting	26 50	
Mattresses and repairs	317 84	
Mop cloths, 14	32 52	
Mop and brush handles	6 33	
Napkins	8 75 6 00	
Napkin rings Oil cloths	3 45	
Pails, 43 dozen	17 30	
Paper bags	5 60	
Papering	93 00	
Picture frames	2 50	
Preserve jars and cansQuilts, 30	$\begin{array}{cc} 55 & 25 \\ 27 & 75 \end{array}$	
Range and stove repairs	55 32	
Repairing furniture	70 47	
Scrub brushes, 127 dozen	37 84	
Scrub brushes, 12 <sub>72</sub> dozen	1 00	
Sponges Sheeting, 684½ yards	5 50	
Sheeting, 6842 yards	142 95 8 99	
String	98 80	
Towels and toweling	71 44	
Towel rack	50	
Tinware and repairs	137 89	
Window shades	19 75	
Whisk brooms, 2 dozen	3 00	
Wooden howle	5 95	
Whisk brooms, 2 dozen	5 25	\$2.536 44
Wooden bowls	5 25	\$2,536 44
Building and Repairs.		\$2,536 44
·	\$2 21 3 00	\$2,536 44
Building and Repairs.  Belting	\$2 21 3 00 318 10	\$2,536 44
Building and Repairs.  Belting	\$2 21 3 00 318 10 45 10	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay	\$2 21 3 00 318 10 45 10 6 00	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc.	\$2 21 3 00 318 10 45 10 6 00 238 48	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Grayel	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 15 barrels	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75	\$2,536 44
Building and Repairs.  Belting	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 644 197 93	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Paints, oils, and brushes	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Paints, oils, and brushes	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Paints, oils, and brushes	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 647 97 647 93 160 82 53 35 12 50 194 54	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Paints, oils, and brushes	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 25 53 35 12 50 194 54 133 24	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Paints, oils, and brushes	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 194 54 184 54 185 24	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 15 barrels Lumber Packing for engine Painting Paints, oils, and brushes Pipe covering Plaster Plumbing supplies Range repairs Repairing slate roof Repairing slate Sand 46 loads	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 194 54 133 24 167 50 28 00	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cemeut, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Painting Paints, oils, and brushes Pipe covering Plaster Plumbing supplies Range repairs Repairing slate roof Repairing slate Sand. 46 loads	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 194 54 184 54 185 24	\$2,536 44
Building and Repairs.  Belting Blacksmithing Cemeut, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Painting Paints, oils, and brushes Pipe covering Plaster Plumbing supplies Range repairs Repairing slate roof Repairing slate Sand. 46 loads	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 197 93 160 82 53 160 82 53 12 50 194 54 133 24 167 50 28 00 92 00 92 14 75	\$2,536 44
Building and Repairs.  Belting	\$2 21 \$3 00 \$18 10 \$6 00 \$238 48 \$1 00 \$6 32 \$1,559 00 \$19 75 \$647 97 \$647 97 \$647 97 \$647 97 \$100 82 \$53 35 \$12 50 \$194 54 \$167 50 \$28 00 \$9 20 \$8 12	
Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 13 barrels Lumber Packing for engine Painting Paints, oils, and brushes Pipe covering Plaster Plumbing supplies Range repairs Repairing slate roof Repairing slate roof Repairing slate roof Repairing tank Sand, 46 loads Sewer pipe, 52 feet Step repairs Wire netting, 840 feet	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 160 82 53 160 82 53 12 50 194 54 133 24 167 50 28 00 92 00 92 00 8 12 44 75	\$2,536 44 4,618 39
Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 15 barrels Lumber Packing for engine Painting Paints, oils, and brushes Pipe covering Plaster Plumbing supplies Range repairs Repairing slate roof Repairing slate roof Repairing slate roof Repairing slate slate Sand, 46 loads Sewer pipe, 52 feet Step repairs Wire netting, 840 feet	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 19 75 647 97 647 97 647 97 647 97 641 197 93 160 82 53 35 12 50 194 54 167 50 28 00 92 00 8 12 44 75 11 07	
Belting	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 19 4 54 133 24 167 50 28 00 92 00 8 12 44 75 11 07	
Belting	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 6 43 32 1,559 00 19 75 647 97 647 97 641 197 93 160 82 53 35 12 50 194 54 167 50 28 00 92 00 8 12 44 75 11 07	
Belting	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 19 4 54 133 24 167 50 28 00 92 00 8 12 44 75 11 07	
Belting	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 194 54 133 24 167 50 28 00 92 00 8 12 44 75 11 07 \$1 30 1,567 50 436 05 170 88	
Belting Blacksmithing Cement, 86½ barrels Engine repairs Fire clay Glass, putty, etc. Gravel Hardware Heating apparatus Lime, 15 barrels Lumber Packing for engine Painting Paints, oils, and brushes Pipe covering Plaster Plumbing supplies Range repairs Repairing slate roof Repairing slate roof Repairing slate sak Sand, 46 loads Sewer pipe, 52 feet Step repairs Wire netting, 840 feet  Fuel and Light.  Candles, 40½ pounds Charcoal, 2 sacks Coal, Brymbo, 115 tons 1,170 pounds Coal, South Prairie, 46 tons 960 pounds Coal, Wellington, 124 tons 1,290 pounds	\$2 21 3 00 318 10 45 10 6 00 238 48 31 32 1,559 00 19 75 647 97 647 97 647 97 641 197 93 160 28 00 19 133 24 167 50 28 00 92 12 44 75 11 07 \$5 70 1 30 1,567 50 436 05 1,507 50 436 05 1,507 50 436 05 1,507 50	
Belting	\$2 21 3 00 318 10 45 10 6 00 238 48 31 00 643 32 1,559 00 19 75 647 97 64 197 93 160 82 53 35 12 50 194 54 133 24 167 50 28 00 92 00 8 12 44 75 11 07 \$1 30 1,567 50 436 05 170 88	

Electric light fixtures	\$1,008 95	
Gas and lamp chimneys, 19½ dozen	1,857 01	
Gas and lamp chimneys, 194 dozen	15 05	
Machine oil, 66 gallons	43 65	
Matches, 20 gross	8 <b>4</b> 5	
Repairing gas nxtures	7 55	
Scale preventive, 10 gallons	5 00	
Wages, engineers Wicks, etc. Wood, 11½ cords	2,236 00	
Wood 111 cords	8 55 118 25	
17 Ood, 114 Colub		\$9,839 44
Laundry.		40,000 11
Baskets, 7	\$15 60	
Blueing	18 38	
Caustic soda, 710 pounds	110 90	
Chloride of lime, 95 pounds	4 31	
Clothespins.	90	
Elevator	80 00	
Pan for furnace	5 00	
Rosin	70	•
Sal soda, 2,363 pounds	41 12	
Soap, borax, 100 pounds	5 50	
Soan boiler	7 50	
Starch, 792 pounds	39 06	
Tallow, 886 pounds	17 38	
Tallow, 886 pounds	1,845 00	
Wax, 17 pounds	4 62	0.105.05
Stable and Dairy.		2,195 97
-	4. 4	
Barley, 7,672 pounds	<b>\$71 49</b>	
Bran, 92,055 pounds	716 36	
Brooms	2 00	
Chamois skins.	3 00	
Corn, 815 pounds	11 23	
Cream	75 1 58	
Currycombs Cutting hay		
Farm implements	2 00 68 49	
Farm implements	68 49	
Farm implements Harness repairs Harness oil	68 49 59 90	,
Farm implements Harness repairs Harness oil	68 49 59 90 50	
Farm implements Harness repairs Harness oil	68 49 59 90	,
Farm implements Harness repairs Harness oil Hay, 278,630 pounds. Horse shoeing and clipping Middlings, 19,526 pounds	68 49 59 90 50 1,436 79	
Farm implements Harness repairs Harness oil Hay, 278,630 pounds. Horse shoeing and clipping Middlings, 19,526 pounds	68 49 59 90 50 1,436 79 144 00 185 87 121 09	
Farm implements Harness repairs Harness oil. Hay, 273,530 pounds. Horse shoeing and clipping. Middlings, 19,526 pounds Oats, 8,792 pounds. Oilcake, 10,786 pounds.	68 49 59 90 50 1,436 79 144 00 185 87 121 09 171 11	
Farm implements Harness repairs Harness oil Hay, 273,580 pounds. Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc.	68 49 59 90 50 1,436 79 144 00 185 87 121 09 171 11 2 68	,
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons	68 49 59 90 50 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20	
Farm implements Harness repairs Harness oil. Hay, 273,530 pounds. Horse shoeing and clipping. Middlings, 19,526 pounds. Outs, 8,792 pounds. Oilcake, 10,786 pounds. Pails, etc. Repairing buggies and wagons. Sponges	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80	
Farm implements Harness repairs Harness oil Hay, 278,630 pounds. Horse shoeing and clipping Middlings, 19,626 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50	
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Stock Straw 110 bales	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35	
Farm implements Harness repairs Harness oil. Hay, 273,530 pounds. Horse shoeing and clipping. Middlings, 19,526 pounds. Oats, 8,792 pounds. Oilcake, 10,786 pounds. Pails, etc. Repairing buggies and wagons. Sponges Stock Straw, 110 bales. Veterinary expenses.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 50	
Farm implements Harness repairs Harness oil Hay, 278,580 pounds. Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses. Wages	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 50 1,440 17	
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 1,440 17 120 75	
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Spouges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds	68 49 59 90 1,436 79 144 00 185 80 121 09 171 11 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14	
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 1,440 17 120 75	5.095 75
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Spouges Stock Straw, 110 bales Veterinary expenses Wagon Wheat, 840 pounds Whip	68 49 59 90 1,436 79 144 00 185 80 121 09 171 11 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14	5,095 75
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Spouges Stock Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14 1 50	5,095 75
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 12 14 1 50	5,095 75
Farm implements Harness repairs Harness oil Hay, 273,530 pounds. Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses. Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper. Tools	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14 1 50	5,095 75
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper Tools Type Wages, carpenter	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 50 1,440 17 120 75 12 14 1 50 825 43 31 90	5,095 75
Farm implements Harness repairs Harness oil Hay, 273,530 pounds. Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses. Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper. Tools	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14 1 50 \$25 43 31 90 24 85	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Spouges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper. Tools Type Wages, carpenter Wages, printer	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 12 14 1 50 \$25 43 31 90 \$1,996 00	5,095 75 1,558 18
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 12 14 1 50 \$25 43 31 90 \$1,996 00	,
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 12 14 1 50 \$25 43 31 90 \$1,996 00	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Spouges Stock Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous. Advertising	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 50 1,440 17 120 75 12 14 1 50 \$25 43 31 30 24 85 1,996 00 380 00	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Spouges Stock Straw, 110 bales Veterinary expenses Wagon Wheat, 840 pounds Whip  Industrial Department. Paper. Tools Type Wages, carpenter Wages, printer  Miscellaneous. Advertising Blacksmithing Books, stationery, etc.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 50 1,440 17 120 75 12 14 1 50 \$25 43 31 90 24 85 1,996 00 380 00 19 98	,
Farm implements Harness repairs Harness oil Hay, 273,630 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous. Advertising Blacksmithing Books, stationery, etc. Cartage	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 12 14 1 50 	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds. Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses. Wages Wagon Wheat, 840 pounds Whip  Industrial Department. Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous. Advertising. Blacksmithing Books, stationery, etc. Cartage Christmas expenses	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 50 49 35 20 50 1,440 17 120 75 12 14 1 50 24 85 1,996 00 380 00 380 00 19 95 769 88 7 50 66 76	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Spouges Stock Straw, 110 bales Veterinary expenses Wagon Wheat, 840 pounds Whip  Industrial Department. Paper. Tools Type Wages, carpenter Wages, printer  Miscellaneous. Advertising Blacksmithing Books, stationery, etc. Cartage Christmas expenses Collection charges	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 19 35 20 50 1,440 17 120 75 12 14 1 50 \$25 43 31 90 24 85 1,996 00 380 00 \$3 40 19 98 7 50 66 76 988 7 50 66 76 142 85	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department.  Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous.  Advertising. Blacksmithing Books, stationery, etc. Cartage Christmas expenses Collection charges Drugs medicines, etc.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14 1 50 	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Sponges Stock Straw, 110 bales Veterinary expenses Wages Wagon Wheat, 840 pounds Whip  Industrial Department.  Paper Tools Type Wages, carpenter Wages, printer  Miscellaneous.  Advertising. Blacksmithing Books, stationery, etc. Cartage Christmas expenses Collection charges Drugs medicines, etc.	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 63 263 20 1 80 187 50 49 35 20 50 1,440 17 120 75 12 14 1 50 24 85 1,996 00 380 00 19 95 769 88 7 50 88 7 60 88 7 7 88 88 7 80 88 7 80 88 87 80 88 37 80 83 87 83 83 83 83 83 83 83 83 83 83 83 83 83	,
Farm implements Harness repairs Harness oil Hay, 273,530 pounds Horse shoeing and clipping Middlings, 19,526 pounds Oats, 8,792 pounds Oilcake, 10,786 pounds Pails, etc. Repairing buggies and wagons Spouges Stock Straw, 110 bales Veterinary expenses Wagon Wheat, 840 pounds Whip  Industrial Department. Paper. Tools Type Wages, carpenter Wages, printer  Miscellaneous. Advertising Blacksmithing Books, stationery, etc. Cartage Christmas expenses Collection charges	68 49 59 90 1,436 79 144 00 185 87 121 09 171 11 2 68 263 20 1 80 187 35 20 50 1,440 17 120 75 12 14 1 50 	,

#### Expenses of pupils, etc. Expenses of pupils to oculist...... Express charges 167 10 2 40 87 27 Flytraps, 1 dozen Freight on supplies Hose, 250 feet 32 00 **53 40** 5 80 Repairing and tuning pianos.... 59 96 Repairing electric apparatus 2 00 Rubber stamps Stamps Seeds and plants Subscription to deaf and dumb annals 164 42 Subscription to newspapers 13 30 7 00 Subscription to magazines for the blind 242 05 Traveling expenses Telegrams Telephone services Wrapping paper, etc. Water, 860,561 gallons 456 65 259 12 \$3,049 41 \$96,400 87

### BIENNIAL STATEMENT OF THE TREASURER.

#### GENERAL STATEMENT.

Receipts and Disbursements for the two years ending June 30, 1890.

	Fortieth Fiscal Year.	Forty-first Fiscal Year.	Total.
RECEIPTS.			
July 1, 1888, eash on hand		l	\$4,634 41
July 1, 1888, cash on handFrom State Treasurer, support	\$45,750,00	\$45,750 00	91,500 00
		1 1/110 05	2,383 83
From dividends Union Savings Bank	00, 10	61 80	61 80
From State Treesurer conservatory building	854 10	02 00	854 10
From State Treasurer educational building	4 140 30	40,021 63	44,161 93
From miscellaneous receipts From dividends, Union Savings Bank From State Treasurer, conservatory building From State Treasurer, educational building From State Treasurer, grading and macadamizing From State Treasurer water supply	348 25	10,022 00	343 25
From State Treasurer Water supply	0.0.20	3,103 72	3,103 72
From State Treasurer, water supply		1,480 12	1,480 12
From State Treasurer articulation department		1,875 00	1,875 00
From State Treasurer, girls' home		29,322 65	29,322 65
From State Treesurer electric plant		1,000 00	1,000 00
From State Treasurer, electric plant From State Treasurer, furnishing school building		781 95	781 95
Prom State Treesurer type writers		781 95 285 00	285 00
From State Treesurer pointing buildings	954 19	200 00	854 18
From State Treasurer, type writers From State Treasurer, painting buildings From State Treasurer, boiler, etc.	004 10	2,000 00	2,000 00
- 1011 State 11000 utol, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollon, bollo			
DISBURSEMENTS.	\$52,879 01	\$127,128 52	<b>\$184,641</b> 94
For salaries and wages For salaries and wages (General Fund)	\$27,576 83	\$28,784 50	\$56,361 33
For salaries and wages (General Fund)	941 75		941 75
For supplies	17.714 84	16,882 16	34,597 00
For supplies (General Fund)	1.349 45	1,999 35	3,348 80
For supplies (General Fund) For Treasurer's salary	500 00	500 00	1,000 00
For sundries	152 00		152 00
For educational building	4.140 30	40,021 63	44,161 93
For grading and macadamizing	343 25	<b></b>	343 25
For painting buildings	854 18		854 18
For new girls' home building		29,322 65	29,322 65
For water supply.		3,103 72	3,103 72
For Treasurer's salary For sundries For educational building For grading and macadamizing For painting buildings For new girls' home building For water supply For mechanical department For articulation department For electric plant		1,480 12	1,480 12
For articulation department		1,875 00	1,875 00
For electric plant For furnishing school building		1,000 00	1,000 00
For furnishing school building		781 95	781 95
For type writers		285 00	285 00
For conservatory building	854 10		854 10
For type writers For conservatory building For boiler, etc.		2,000 00	2,000 00
	\$54,426 70	\$128.038.08	\$182,462 78
July 1, 1890, balance cash on hand	φυ2,320 10	Ψ120,000 VO	2,179 16
sury 1, 1000, paramet cash ou hand			2,110 10
		1	\$184,641 94

#### DETAILED STATEMENT.

#### GENERAL FUND.

July 1, 1888—Cash on hand	\$4,634 41 91,500 00 2,445 63
Total	\$98,580 04
Disbursements.	
For salaries and wages       \$57,308 08         For supplies       37,945 80         For Treasurer's salary       1,000 00         For sundries       152 00         July 1, 1890—Balance, cash on hand       2,170 16	\$98,580 <b>0</b> 4
<del></del>	φου,ουσ υπ
SPECIAL APPROPRIATIONS.	
CONSERVATORY BUILDING FUND.	
From State Treasurer	\$854 10 854 10
PAINTING BUILDING FUND.	
From State Treasurer	\$854 18 854 18
GRADING AND MACADAMIZING FUND.	
From State Treasurer	\$343 25 343 25
EDUCATIONAL BUILDING FUND.	
From State Treasurer	\$44,161 93 44,161 93
NEW GIRLS' HOME BUILDING FUND.	
From State Treasurer	\$29,322 65 29,322 65
MECHANICAL DEPARTMENT FUND.	
From State Treasurer	\$1,480 12 1,480 12
ARTICULATION DEPARTMENT FUND.	,
From State Treasurer	\$1,875 00 1,875 00
WATER SUPPLY FUND.	
From State Treasurer	\$3,103 72 3,103 72
ELECTRIC PLANT FUND.	
From State Treasurer	\$1,000 00 1,000 00
FURNISHING SCHOOL BUILDING FUND.	
From State Treasurer	\$781 95 781 95
TYPE WRITER FUND.	
From State Treasurer	\$285 00 285 00
BOILER FUND.	
From State Treasurer	\$2,000 00 2,000 00

#### TRUST FUNDS.

Durham Fund.		
July 1, 1888—Receipts—Cash on hand From interest and dividends		\$17,230 37 5,303 68
Proceeds Henri Windel's note		10,000 00
Total		\$32,534 05
Tel 1 1000 Dishesses of Breeze all all	#404 FF	
July 1, 1888—Disbursements—For scholarships To Douglas Tilden	\$464 57 1.221 80	
To T. de Estrella.	250 00	•
For sundries	230 13	
Loan, Adolph Schroeder July 1, 1890—Balance cash on hand	17,500 00 12,867 55	
Louis Strauss Fund.		\$32,534 05
July 1, 1888—Receipts—Cash on hand	<b>£1</b> 950 50	
From dividends	\$1,352 52 263 43	
From dividends Proceeds Henri Windel's note	5,000 00	
Total		\$6,615 95
Disbursements—as per vouchers—Sundries.	\$118 00	\$0,010 SC
For clock	1,375 00	
July 1, 1890—Balance cash on hand	5,122 95	
LIBRARY FUND.		\$6,615 95
July 1, 1888—Receipts—Cash on hand	<b>£1</b> 970 09	
From dividends	\$1,378 63 122 46	
Model 1		84 FO4 OC
Total	\$317 96	\$1,501 09
Disbursements as per vouchers	1,183 13	
,		\$1,501 09
ORGAN FUND.	=	
July 1, 1888—Receipts—Cash on handFrom dividends	\$1,532 27 156 29	
·		
Total July 1, 1890—Balance cash on hand	<b>e</b> 1 eve se	\$1,688 56
July 1, 1000—Datatice cash on halid	<del>\$1,000.00</del>	\$1,688 56
OM A MINIM OTO CLA OLI DIA LA MOTO	•	
STATEMENT OF CASH BALANCES.	,	AO 150 10
July 1, 1890—On deposit in Union Savings Bank to credit Genera	l Fund	\$2,179 16
On deposit in Union Savings Bank to credit of Durl	nam Fund	\$12,867 55
On deposit in Union Savings Bank to credit of Louis S	trauss Fund	1,183 13
On deposit in Union Savings Bank to credit of Libr On deposit in Union Savings Bank to credit of Orga	ary Fund	1,688 56
Total		
·		
Loans on real estate securities		\$33,500 00
Loaned to Theodore Grady Loaned to Douglas Tilden	· · · · · · · · · · · · · · · · · · ·	600 00 1,721 80
Balance cash on hand	·	20,862 18
Total value trust funds		\$56,683 98
Mortgage investments, Adolph Schroeder	\$17,500 (	00
Mortgage investments, John Staude	16,000 (	)0 30
Mortgage investments, Theodore Grady.	600 ( 1 791 (	JU RA
Total value trust funds Mortgage investments, Adolph Schroeder Mortgage investments, John Staude Mortgage investments, Theodore Grady Mortgage investments, Douglas Tilden Balance cash on hand	20.862	19
		<u>\$56,683 99</u>
117	T DD AM	TED.
OAKLAND, CAL., August 22, 1890.	L. PRATI	nek, Treasurer.
One of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o		· TOWNSHIOT.

Subscribed and sworn to before me, this fourteenth day of October, 1890.

J. W. MOSS, Notary Public.

## LIST OF PUPILS IN THE INSTITUTION.

NAME.	Town.	County.
Boys.		
Anderson, Adolf	Oakland	Alameda
Bean David M.	San Francisco	San Francisco
Brown, Geo. W.	Traver	Tulare
Bucking, Geo. F	San Francisco	Tulare San Francisco
Burgess, Rybert J	Etiwanda	San Bernardino
Butler, Louis L.	Stillwater	Shasta
Carpenter, Ernest	Fallbrook	Shasta San Diego San Francisco
Cator, Azro A.	San Francisco	San Francisco
Coder, Sherman B	Arabella	Lake
Cohn, Bennie D.	San Francisco	San Francisco Butte
Cole, Jay	Cnico	Con Emanaigas
Collischonn, Fred.	San Francisco	San Francisco
Connelly, John	Howards	San Francisco
Coulter, Chas. B.	San Andreas	Colorore
Crotzer Elza	San Francisco	Alameda. Calaveras. San Francisco
Cretzer, Elza Curtiss, Fred. W. Daggett, Jas. W.	Paradise	Butte
Daggett Jas. W.	Oakland	Alameda
Demartini, Andrew	Brentwood	Contra Costa
Dilke, John T.	Sacramento	Sacramento.
Donoho, Augustus	Dixon	Solano.
Dugan, Edward	Janesville	Solano. Lassen.
Fritz, Geo. H	Los Angeles	Los Angeles.
Funkenstein, Leon	San Francisco	Los Angeles San Francisco Santa Clara
Gale, William D	San José	Sa <u>n</u> ta Clara.
Garrido, Francisco	San Francisco	San Francisco.
Goodrich, Doney H.	Geyserville	San Francisco. Sonoma. Alameda. San Joaquin.
Green, Ray	Stockton	Con Togguin
Gross, Chas. A.	Sep Francisco	San Francisco.
Guinessi, Victor		Modoc.
Hartman, Edwin	San Francisco	San Francisco
Hatch, Joseph	Cottonwood	Shasta.
Hawver, Geo. E.	Los Angeles	Los Angeles.
Hawver, Geo. E. Heckman, Fred. W.	San Francisco	Shasta. Los Angeles. San Francisco. Sutter.
Hinman, Gage J.	Nicolaus	Sutter.
Hoffman, Edward	l St. Helena	I Nana.
Horn, Sigmond	San Francisco	San Francisco.
Howson, James	Sacramento	Sacramento. San Francisco.
Hughes, William	Anticoh	Contro Costo
Iert, Gustav Iert, Herman H	Antioch	Contra Costa
Jackson, Louie B.	Fruitvale	Alameda
Jacobs, Isadore H	San Francisco	Contra Costa. Contra Costa. Alameda. San Francisco.
Jacobs, Monroe		
Johnson, James H.	Madison	Yolo.
Kaiser, Geo. H	Vallejo	Solano
Kavanaugh, Wm. J	Alameda	Alameda.
Keesing, Barnett	San Francisco	San Francisco.
Kinevan, Patrick		Santa Barbara.
King, Chauncey	Banta Barbara	Santa Barbara.
Lobo Fronk	Canto Cruz	Amador.
Lake, Frank	Los Angeles	Los Aprolos
Lauginin, Joseph	San Francisco	San Francisco
Lester Walter M	Berkeley	Alameda
King, Chauncey Koch, Charles Lake, Frank Laughlin, Joseph Lehman, Conrad Lester, Walter M Lewis, Beverly Lewis, James Liddle, Bertrand L Lipsett, Robert A.	Tracy	San Joaquin
Lewis, James	Capay	Yolo
	D	Manhanan
Liddle, Bertrand L	Dryson	Monterey,

#### LIST OF PUPILS—Continued.

LIST OF	Pupils—Continued.	
Name.	Town.	County.
Lociceto, John	San Francisco	San Francisco.
Lohmeyer, Ed. W. F	San Francisco	San Francisco.
Love Dingald M	Antioch	San Francisco. Contra Costa.
McCarty, W. E. McPeake, Thomas Mensor, Fred.	San Francisco	San Francisco.
McPeake, Thomas	San Pablo	Contra Costa.
Mensor, Fred	San Francisco	San Francisco.
Miller, Chas. F	Stockton	san Joaquin.
Miller, Joseph	Lorin	Alameda.
Morse, Elmer R.	Qakland	Alameda.
Munch, Anthony B.		San Francisco.
Murphy, Joseph	San Francisco	San Francisco.
Norwn, Maynew	Son Wanniggo	Alameda.
O'Brien, Daniel O'Malley, John M	Tryington	Alamada
Page, John	Rarkalay	Alameda.
Parlour John George	Oakland	Alameda.
Pearson Wm	Los Angeles	Los Angeles
Pearson, Wm. Presley, Hiram M.	Lomnoc	Los Angeles. Santa Barbara.
Raffeto, Frank	San Francisco	San Francisco.
Redmond, G. S.	Parkfield	Monterey.
Reeves, Clare	Calistoga	Sonoma.
Reynolds, Robert	Oakland	Alameda.
Rhodes, Rodney	Woodland	Yolo.
Robles, Wm	Montecito	Santa Barbara.
Rhodes, Rodney Robles, Wm. Rundé, Winfield S.	San Francisco	San Francisco.
Sanguinetti. A	Stockton	Landra San Joaquin.
Saunders, James L	Fresno	Fresno.
Schroder, George	San Francisco	San Francisco.
Selig, Isadore	San Francisco	San Francisco.
Shaw, James H.	Salinas.	Monterey.
Sievers, Henry	Stockton	San Joaquin.
Silva, Charles	Kiverside	San Bernardino.
Stafford, Monterville	Potolumo	Tulare.
Stewart, Alva	Log Appelog	Sonoma, Los Angeles.
Stewart, James H	Santa Clara	Santa Clara
Strobel, Fred. G.	San Francisco	Santa Clara. San Francisco.
Sweetman, John	San Francisco	San Francisco.
Taber, Hal	Antioch	Contra Costa.
Taber, Oscar D.	Butte City	Colusa.
Tripp, W. H	Stockton	San Joaquin. San Francisco.
Walters, Frank	San Francisco	San Francisco.
Wiley, Thomas	San Francisco	San Francisco.
Williams, Halleck	Tracy	San Joaquin. Alameda,
Williams, Leister	Oakland	Alameda,
Girls.		
Adair, Mary J.	Los Angeles	Los Angeles. Alameda.
Alexander, Florence	Berkeley	Alameda.
Ankener, Frances	Sacramento	Sacramento.
Ashworth, Jessie	Chico	Butte.
Boyer, Lillie D. Brimmer, Leonora Campbell, Marie	Fresno	Fresno.
Brimmer, Leonora	Banta Cruz	Alamada
Campbell, Marie	Secretary	Saaramanta
Chondler Maggie	Tulero	Tulara
Chandler, MaggieCraddock, Rose	Shagta	Shasta
Cohn, Celia	San Francisco	San Francisco.
Cole, Elizabeth D.	Oakland	Alameda
Crawford Carrie	Berkelev	Alameda.
Cromley, Carrie	Tulare	Tulare.
Daggett, M. E.	Oakland	Alameda
Cromley, Carrie Daggett, M. E. Decker, Delia	Chico	Butte.
DeFrees, Mary A.  Degouy, Marguerite Di Vecchio, Ida	Oakland	Alameda.
Degouy, Marguerite	San Francisco	San Francisco.
Di Vecchio, Ida	San José	Santa Clara.
Dobnor Ethel	ISAN INSA	i canta Giara.
Doren, Theresa	San Pablo	Contra Costa.
Downes, Mary	San Francisco	San Francisco.
Dugan, Mary E.	San Francisco	San Francisco.

#### LIST OF PUPILS—Continued.

NAME.	Town.	County.
Mar. 1, 7913, 1,79	Man to a second	Monton
Finch, Ethel E.	Monterey San Francisco San Francisco	Oon Engage
Funkenstein, Pauline	San Francisco	San Francisco
ande, Mabel A	San Francisco	San Francisco
Sande, Ida Sould, Maude H.	San Francisco	San Francisco
Jould, Maude H	Orange Vale Orange Vale San Francisco Cottonwood	Sacramento
Fould, Louise F	Orange Vale	Sacramento
Filbert, Angele	San Francisco	San Francisco
Hatch, Adeline	Cottonwood	Shaste
Hennessey Isahella	San Francisco	San Francisco
Hennessey, IsabellaHinman, Mabel A.	Sheridan	Place
Honnor Lennor	Alamada	Alamed
Hopper, Lenney	SheridanAlamedaSan Francisco	Son Francisco
Horrick, Lizzie	Danies Danies	Trilon
Labor Det D.	Poplar Fruitvale Berkeley Petaluma San Francisco	Alamad
ackson, Estella	Fruitvaie	Alamed
ohnson, Lucy	Вегкенеу	Alameda
Kuffel, Wilina	Petaluma	Sonoma
Lamey, Lydia	San Francisco	San Francisco
Larner, Theresa	San Diego	Lan Diege
Ledden, Gertrude	San Francisco	Lancisco San Francisco
Lindstrom, Anna M.	Oakland	LAlamed
orensen, Emma	San Diego San Francisco Oakland Chualar San Francisco Montecito	Monterer
wnch Irene	San Francisco	San Francisco
ynch, Irene	Montegito	Santa Barbar
Manner Laure	San Loandro	Alamad
daury, Laura	San Leandro	Con Emanaiga
IcGrath, Mary	San Francisco	Janeise
Miller, Clara S	StocktonSan Francisco	san Joaquu
Mucha, Rosa	San Francisco	an Francisc
Norton, Frances A.	Oakland	lA lamed:
VToole Messeis	Madrona	Santa Clar
Petersen, Rassmine	West Berkelev	Alamed
Petersen, RassminePhelps, Fannie	Pomona	Los Angele
orter, Fanny E.	Turlock	Stanislau
Presley, Patty B.	Lomnoe	Santa Barbar
Regli, Josephine	San Wanningo	Son Francisco
regn, Josephine	Ti	Colon
Reichert, Mabel	West Berkeley Pomona Turlock Lompoe San Francisco Dixon	Soland
cowe, Tillie	Auburn	Lace
ieferman, Emile	Woodland	Yok
Summers, Jessie Peralta, Maria A	Waterford	Lanislau
Peralta, Maria A.	Warm Springs	Alamed
Paralta, Corina	Warm Springs	Laned:
Welch, Nellie	Woodland Waterford Warm Springs Warm Springs Virginia City Berkeley	Learning Nevada
Westfall, Dora A.	Berkeley	Alamed
72.7 75.1	<b>y</b>	
Blind-Males.		
Bacigalupi, Lucien	Oakland	Alameda
Barkhausen, August	San Francisco	San Francisco
Rouman Fred	San Francisco	San Francisc
Brooks, William	Oakland	Alamed
arroll. Wm.	Log Angolog	Los Angele
Coffey, John F. Crossfield, Wm. De Sales, Joseph	San Francisco	San Francisc
rossfield Wm	San Francisco	San Francisc
A Salas Tosoph	San Francisco	San Francisc
Je Saies, Joseph	San Francisco	On Francisc
ford, John	TI'. Db	Ctantist
Ienderson, Clarence	Horr's Ranch	Stanislau
Ienderson, Raymond	Horr's Ranch	Stanisiau
Henry, Jacob Hornsby, James Howard, Albert	Redondo Beach	Los Angele
Hornsby, James	Poplar	Tular
Ioward, Albert	Colfax	Place
ensen. Peter	Suisun	Solan
ensen, Peter King, Frank J.	Monterey	Montere:
kirkpatrick, Gerald Cleutsch, Frank J. Krasky, Daniel Ashey, Michael AcLaughlin, Geo.	San Francisco	San Francisc
Clautech Frank I	San Francisco	San Francisc
Zrogler Doniel	Tulono	T-1
abow Michael	Can Dramaia	Con English
aney, Michael	Dan Francisco	an rrancisc
AcLaughlin, Geo.	Petaluma	Sonom
Connor, John W	Oakland	Alamed
3 3T 31 T	WITHVIHE	
erry, Newell L.		Alamad
erry, Newell L.	Oakland	Alamed
Richville, Geo	Oakland Berkelev	Alamed
eerry, Newell L	Oakland Berkeley	Alamed

#### LIST OF PUPILS—Continued.

Name.	Town.	County.
Blind-Females.		
Eastman, Mary W	San Francisco	San Francisco.
Fallon, Kate	West Berkeley	Alameda
Foley, Kate	Duarte	Los Angeles
Hanchett, Grace	San José	Santa Člara
Johnson, Regenia	Montgomery Creek	Shasta.
Labarraque, Christine	San Feline	Santa Clara
Logan, Élizabeth	Penrvn	Placer
Madrid, Esperanza	Visalia	Tulare
Mast, Augusta E	San Francisco	San Francisco
Mullaney, Dorenda	San Francisco	San Francisco
Oxton, Amelia	San Francisco	San Francisco
Ramsell, Annie	San Francisco	San Francisco
Silva, Maggie	San Francisco	San Francisco
Smith, Johanna	San Francisco	San Francisco
	Los Angeles	
Whaley, Lizzie	San Francisco	San Francisco
Young, Hattie L.		

### TERMS OF ADMISSION.

The California State Institution for the Deaf and Dumb, and the Blind, is located at Berkeley, about four miles north of the city of Oakland. Between San Francisco and Berkeley a steam ferry plies almost every half hour in the day, and from Oakland a railroad is constructed, which lands passengers within easy walking distance of the Institution.

First—The Institution offers its benefits to all deaf and dumb, or blind persons who are of age suitable for instruction, and who are of sound intellect, and free from vicious habits and contagious or offensive diseases.

Second—No charge is made for pupils from this State, except for clothing and traveling expenses.

Third—Pupils from other States or Territories are charged \$300 per annum, payable quarterly in advance. No deduction is made from annual charge on any account, except in case of prolonged sickness.

Fourth—The session begins on the fourth Wednesday of August, and closes the second Wednesday of June. Parents are earnestly requested to enter, or return their children, promptly at the beginning of the term. Only in extreme cases will the pupils be permitted to leave before school closes.

Fifth—Pupils should be provided with comfortable clothing when they

enter the Institution, and their wardrobe renewed twice a year.

Sixth—All moneys designed for pupils should be placed in the hands of the Principal, to whom, also, all letters of inquiry, etc., should be addressed. Money orders should be drawn on the "Berkeley" Post Office; and all letters, packages, or trunks, should be addressed, "Institution for the Deaf and Dumb, and the Blind, Berkeley, Alameda County, California."

Parents or guardians of applicants for admission are requested to

furnish written answers to the following questions:

1. What is the name of the applicant?

2. When and where was he born?

3. Is his deafness or blindness from birth; or is it from accident or disease? If so, at what age and from what cause did he become so?

4. Is his deafness or blindness total or partial? If the latter, what is the degree of hearing or sight?

5. Have any attempts been made to remove his deafness or blindness; and if so, what are the results?

6. Are there any other cases of deafness, blindness, insanity, or idiocy in the same family, or among the collateral branches kindred? If so, how and when produced?

7. Was there any relation between parents or grandparents before marriage?

8. Has the child had the smallpox, scarlet fever, measles, mumps, whooping cough? Has he been vaccinated?

9. What are the names, nationality, occupation, residence, and Post Office address of parents?

10. What is the number of their children?

## FIFTH ANNUAL REPORT

OF THE

### BOARD OF DIRECTORS

OF THE

# INDUSTRIAL HOME OF MECHANICAL TRADES

FOR THE

## ADULT BLIND.



SACRAMENTO:

STATE OFFICE::: J. D. YOUNG, SUPT. STATE PRINTING. 1890.

#### REPORT

To the honorable R. W. WATERMAN, Governor of California:

The Board of Directors of the Industrial Home of Mechanical Trades for the Adult Blind herewith submits to you, in pursuance of law, its fifth annual report of the affairs and condition of the Home.

There has been no change in membership of the Board of Directors during the past year, with the exception that the vacancy created by the resignation of Mr. F. M. Smith has been filled by the appointment of Mr. Jacob Greenhood.

The officers of the Home are as follows: President of the Board of Directors, John P. Irish; Vice-President of the Board, Warren Olney; Secretary and Treasurer, L. A. Redman; Superintendent of the Home, Joseph Sanders; Physician of the Home, Andrew Fine, M.D. The salary of the Superintendent is \$2,100 per annum, of the Physician \$1,200 per annum, and of the Secretary \$500 per annum.

The employés of the Home and their rates of compensation are as follows:

Foreman of the workshops, per month	40 25	00 00 00
Gardener	30 25	00
Assistant to foreman  Janitor  First cook	35	00 00 00
Second cook Chambermaid	25	00

The following are the names of the inmates present at the Home during the year, December 1, 1888, to December 1, 1889:

Манв.	Date of Admission.	Age When Admitted_	Former Residence.	Native of.	Cause of Blindness.
Fred. V. Anderson.  L. H. Andrews* William Burgos H. G. Blankman† Ray Bagnelle Thomas Bagnelle Thomas Bagnelle Thomas Bagnelle Thomas Crain George B. Carlinf Gordon Campbell James Croan George B. Carlinf Geo. W. Carlinf Geo. W. Carlinf Geo. W. Carlinf John O. Durham Geo. E. Dudley John O. Durham Geo. E. Dudley John O. Durham Geo. E. Dudley John O. Burlam Geo. E. Hacker H. W. Ford James Gordon Thos. Henderson Abram E. Hite Geo. W. Hulg G. S. Hackett Jacob Kündert James Kerley G. S. Hackett James Kerley G. S. Hackett James Kerley James Kerley James Kerley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley James Karley Jame	July 18, 1887.  July 20, 1887.  May n. 20, 1888.  November 12, 1888.  October 16, 1888.  March 20, 1888.  May 2, 1887.  May 11, 1886.  May 10, 1886.  May 10, 1886.  June 2, 1886.  August 5, 1886.  August 5, 1886.  August 5, 1886.  June 1, 1886.  March 20, 1886.  May 18, 1886.  August 5, 1886.  June 1, 1886.  March 26, 1888.  March 26, 1888.  June 27, 1887.  Rebruary 18, 1887.  August 31, 1886.  October 10, 1889.  May 10, 1886.  October 10, 1889.  May 10, 1886.  October 10, 1889.  May 10, 1886.  June 27, 1887.  September 21, 1886.  June 27, 1887.  Narch 22, 1888.  March 22, 1888.  March 22, 1888.  March 18, 1889.  March 18, 1889.  March 18, 1889.  March 18, 1886.  March 18, 1886.  March 18, 1886.  March 18, 1886.  March 18, 1886.  March 18, 1886.  March 18, 1889.	######################################	Los Angeles. 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Holland Illinois Scotland Pennsylvania Scotland Pennsylvania Scotland Ireland Ireland Ireland Ireland California Ireland California California Denmark New York California Denmark New York New York California Dalmatia Kentucky New York California Dalmatia Kentucky Ohio California Massachusetts California Massachusetts California New York New York Ohio New York New York Ohio New York Ohio New York Ohio New York Ohio New York Ohio New York Ohio Illinois California	Paralysis of optic nerve.  Mechanical injury. Supp'ed atrophy of optic nerve.  Ophthalmia.  Ophthalmia.  Otaract.  Otaract.  Inflammation from foreign substance.  Inflammation.  Accident in mine.  Supposed rheumatic ritis.  Unknown.  Paralysis of optic nerve.  Paralysis of optic nerve.  Accident and cold.  Sarlet fever.  Opacity cornea.  Opacity cornea.  Unknown.  Unknown.  Inflammation.  Unknown.  Inflammation.  Oncration or whip.  Powder accident.  Inflammation.  Oncration or new Sarlet fever.  Opacity cornea.  Opacity cornea.  Opacity cornea.  Opacity cornea.  Opacity cornea.  Oracle fever.  Opacity cornea.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  Oracle fever.  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Exposure and heavy lifting.  Injury to eye.  Exposure, and bad treatment.  Lifting heavy weights.  Fowder accident.  Brain fever.  Brain fever.  Affliction of the optic nerve.  Accident while working in iron.  Accident.  Congenital cataract.  Congenital cataract.  Essult of cold.  Through sickness when five days old.  Through sickness when five days old.  Spinal meningitis.  Unknown.  An operation.  Unknown.  An operation.  Unknown.  Cold.  Onknown.  An operation.  Onknown.  An operation.  Onknown.  Ancident.
New York Ireland Sandwich Islands California Ireland Ireland Ireland Ireland Onth Carolina California Austria Gernany California Maine Ireland Maine Ireland Maine Ireland Maine Ireland Maine Ireland Maine Ireland Maine Iowa Sweden New York California Quebec. Sweden New Strk California Gereat Britain California New York Ireland
Sacramento Sasramento Siskiyou County Placer County San Francisco San Francisco San Francisco Oakland Napa San Francisco Oakland Napa San Francisco Graniteville Oakland San Francisco San Francisco Bute County San Francisco Bute County San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco San Francisco
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March 12, 1888  March 4, 1886  May 2, 1887  September 22, 1885  May 14, 1886  August 27, 1885  October 19, 1885  November 1, 1885  December 19, 1885  May 12, 1887  December 19, 1885  May 12, 1887  June 30, 1886  October 11, 1889  August 28, 1887  October 11, 1889  August 28, 1887  November 1, 1887  November 1, 1888  September 22, 1887  November 1, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  November 22, 1887  September 22, 1887  September 22, 1887  September 22, 1887  September 7, 1889
Bryan T. Nelson Felix O'Nielt Henry Parker Henry Parker Howard Porter Thomas Powers Lawrence Kiley John Sexton O'ornellus Shea Ed. F. Smith William A. Staggs* William A. Staggs* William A. Staggs* H. C. Yanok Daniel Woider William P. Wilson Maggie Aiken Anna M. Brissell Kate Clement Mary Flynn t Louisse A. Haney* Luzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Hannah Lizzie Mallaney Kate O'Rourke Darenda C. Mullaney Kate O'Rourke

\* Away on leave of absence.

Left the Home.

Graduated, and in business for hir Graduated.

The following is a summary of the expenses of the Home for the year:

Months.	Provisions.	Furniture.	Salaries and Wages.	Inmates' Wages.	Raw Material.	Building and Improvements.	Shop Expenses.
1888.							
December	\$481 76	<b>\$2</b> 50	\$676 65	\$275 95	\$286 05		<b>\$</b> 34 44
1889.							
January	517 02	28 35	676 65	337 53	738 62		35 51
February	847 30	9 70	676 65	288 46	674 47		82 05
March	601 24	11 94	680 65	382 71	2,441 37	\$205 20	37 05
April	565 78	300 00	809 07	408 42	3,664 72	φ 200 20	24 95
May	634 99	2 50	803 15	441 36	12 50	11 90	35 65
June	609 69	3 90	749 65	437 47	93 97	1,568 50	42 80
July	571 89	46 46	742 65	447 74	537 87	964 20	35 90
August	518 87	285 72	737 65	433 66	125 89	59 10	29 60
September	497 00	21 75	748 54	367 07	97 60	2,661 10	41 55
October	550 77		737 65	497 00	510 32	22 81	122 80
November	496 48	6 96	737 65	531 15	3,736 54	7 64	48 30
Totals	\$6,892 79	\$719 78	\$8,776 61	<b>\$4,848</b> 52	\$12,919 92	\$5,500 45	\$570 60
Months.	Insurance	. Medicine.	Machinery.	Washing.	Satisfaction of Mortgage.	Miscel- laneous.	Total.
1888.		i -		<u> </u>			
December	\$45 00	\$121 20	\$20 00	\$75 00		\$80 40	\$2,098 95
1889.	,	'	,=====	•••			<b>,</b> -,
January		.		l		46 87	2,380 55
February				150 00		49 95	2,778 58
January February March		121 15		75 00		43 98	4,395 09
April			33 91	75 00	\$668 40	43 32	6,798 77
Mav			295 60	75 00		50 15	2,362 80
May June	45 00	130 25		75 00		70 80	3.827 03
July		1 75		75 00		72 80	3,496 26
July August September	24 00			75 00		71 85	2,361 34
September		. 119 70		75 00		181 60	4,810 91
October		.] <b></b> -	l. <b></b>	75 00		47 10	2,563 45
November		48 35	33 03	75 00		49 50	5,770 60
Totals	\$114 00	\$542 40	<b>\$3</b> 82 54	\$900 00	\$668 40	\$808 32 \$	43,644 33

Following is the monthly returns from the sale of manufactured goods during the year:

December, 1888	\$686	45
January, 1889		
February, 1889		
March, 1889	1.040	25
April, 1889		15
May, 1889	1,083	50
June, 1889	1,305	90
July, 1889		
August, 1889		
September, 1889		
October, 1889		
November, 1889	1,163	50
Total	\$13.728	 55

These returns are forwarded monthly to the State Treasurer, and placed by him in the fund of the Home, to be drawn against by the Board, thus constituting a revolving fund for the Home.

As above given, the amount drawn from the several funds of the Home during the year was \$43,644 33, and in addition to this amount the following credits of the Home were realized upon and expended during the year:

Raw material on hand December 1, 1888	\$1,530 1,337 1,796	60 15 90
Total	\$4,664	65

Adding to which the above amount of \$43,644 33 we get \$48,308 98, which is the total gross expenditure of the Home for the year.

From this aggregate there should be deducted the following credits:

Amount returned to State Treasurer Raw material on hand December 1, 1889.  Manufactured stock on hand December 1, 1889 Bills receivable December 1, 1889.	4,101 99 2,417 62
Making a total of	\$23.414.92

Deducting this total from \$48,308 98, the amount of the gross expenditure, we get \$24,894 06, which is the total net expenditure of the Home for the year.

Of this sum there was expended:

For building and permanent improvements.	
For furniture For cancellation of mortgage on property	719 78
	\$7,271 17

Which sum being deducted would leave the running expenses of the Home at \$17,622 89.

The last Legislature appropriated \$15,500 for building purposes: \$10,500 for an additional dormitory for the male inmates; \$2,500 for a residence for the Superintendent, and \$2,500 for the enlargement of the dining-room and shops. The Superintendent's residence has been constructed at a cost of \$2,485 35, the shops and dining-room have been enlarged to the extent of the amount appropriated, and the contract for the erection of the new dormitory will be awarded at the next regular meeting of the Board. As there has been some complaint in regard to the delay in erecting the dormitory, the cause of it might as well be here explained. As soon as the building of the Superintendent's residence had been completed, the work on the dining-room and shop got under way, the Board had the plans and specifications for the dormitory drawn up and forwarded to the State Board of Building at Sacramento for approval, as required by law. The plans in due time were approved and placed in the hands of Wells, Fargo & Co. to be returned; they were mislaid or lost by the company, and as the Board had not been notified that they had been approved and returned, considerable time elapsed before an investigation and search was made. Finally, upon being notified by the company that the plans had been received by them and lost and that it was impossible to find them, the Board had new ones drawn up and sent to Sacramento for approval. These were returned approved on December fourth, and immediately upon their receipt the Board had the notices required by law inserted in newspapers, calling for proposals to be opened at the regular meeting in January, 1890.

The new dormitory will accommodate nearly fifty more men. When completed the institution will be prepared to maintain about one hundred and fifty inmates, with manufacturing facilities to utilize their labor. It is believed that this will be near the average of the dependent blind in California. Should the fact be otherwise and a larger number appear, the grounds of the institution belonging to the State are ample for further

8

class mechanics.

enlargement of its facilities. The number above stated can be cared for, taught the blind handicrafts, and maintained without any appreciable increase in the administrative expense, and when that maximum is reached the cost per capita will be greatly decreased.

The industries carried on at the Home are broom-making, chair-caning, and hair-picking; match-making will be introduced during the coming year. Broom-making is the chief industry and it seems highly probable that it will continue to remain so; it is a trade to which the blind are peculiarly adapted, the product is one for which there is unfailing and universal demand, and moreover the business has long been associated in the public mind with the accomplishments and achievements of the blind, so that naturally a way of easy ingress has been opened into thousands of households for the "blind man's broom." Great pride is felt at the Home for the output of the cane-seating department; this work is done by the blind women with great neatness and excellence and deserves the highest commendation. The manufactures find a quite ready sale, and in some qualities the market is so appreciative that it is often difficult to keep up stock. This difficulty will be less likely to occur when an increase in the number of inmates yields its natural increase in the percentage of first

The Board takes occasion to again recommend greater flexibility in the law in regard to the manufacturing department of the Home. It almost invariably occurs that advertisements for bids for broomcorn and other raw materials to be opened on a certain day causes a fictitious advance in prices, the stock being usually held by other manufacturers who are the competitors of the Home in the market for the finished articles. Experience has proved that in this respect the Superintendent, in conjunction with the Board, should be permitted to take advantage of the open market and buy in lots at first hands, like other manufacturers. As there is always a margin of productive capacity against the blind workman and in favor of those who have sight, it is not possible that this or any similar institution shall be made self-supporting. The blind apprentice of necessity wastes more material than one with sight, and, after he acquired the journeyman's skill or the dexterity of the master workman, he requires more time to produce an article of commercial value equal to that made by the man with eyesight. The market is not sentimental. It buys to satisfy its own necessities, unmindful of those of the maker of the goods, and refuses to consider the blindness of the maker a good reason for paying first class prices for second class wares. For these reasons it is very desirable that the law should be sufficiently flexible to permit the closest economy in the purchase of raw material. The Home should be able to take advantage of the market and of all the usual commercial discounts for spot cash.

The Directors desire to acknowledge the obligation due to the able Superintendent, himself blind from childhood, and in his alertness, business faculty, and executive talents are example and encouragement to all who suffer the capital loss of vision.

Compliments are also due to the clerk, teacher, and foreman, whose interest in the success of the Home and welfare of its inmates is not measured by their limited compensation. The skillful physician of the institution is able to report its most excellent sanitary condition, which we are aware is largely referable to his daily attentions and advice.

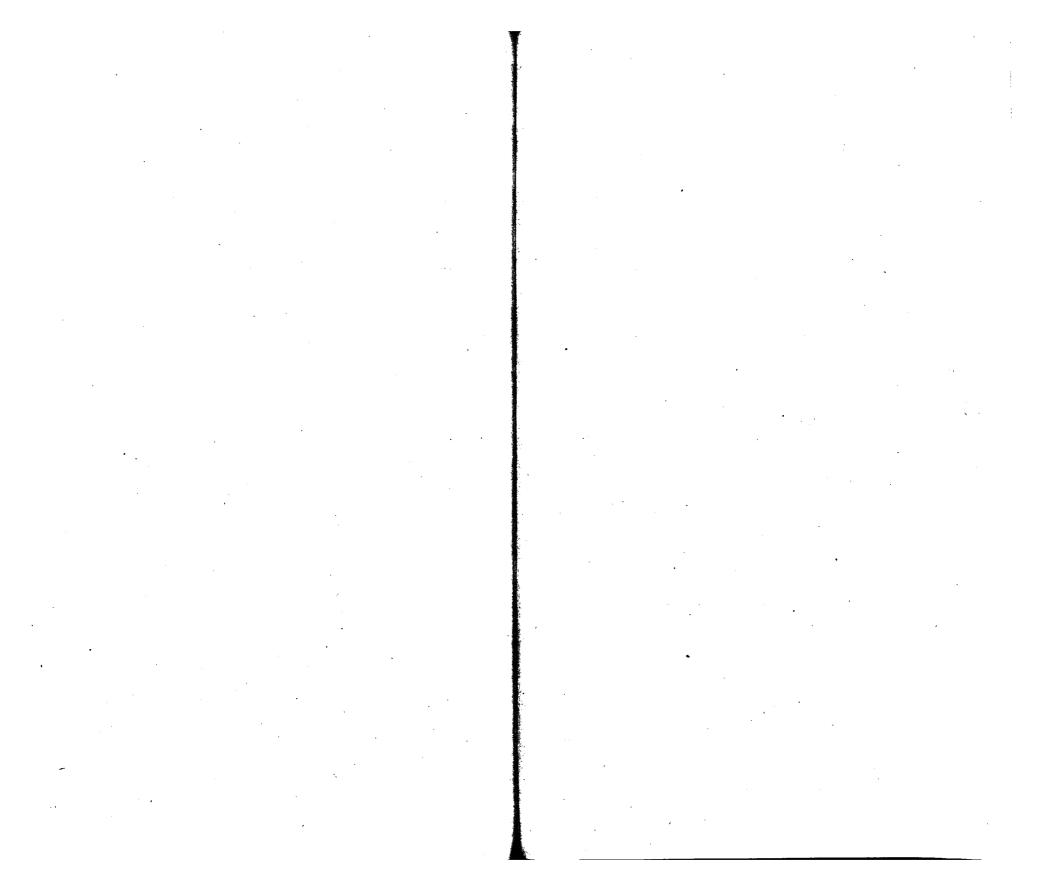
The Board cannot forget, however, that finally the success of the Home depends upon the disposition and efforts of its inmates themselves, and is happy to acknowledge their cheerful maintenance of discipline, their industry, temperance, and good order. The Directors hope as the institution develops and offers its shelter to a greater number, that amongst the inmates will be found material for brass and string bands, that music may enliven the hours of recreation, and further cheer those who, being denied the pleasures of vision, transfer its keenness of appreciation to the other senses.

JNO. P. IRISH, President of the Board of Directors.

Subscribed and sworn to before me this thirty-first day of December, A. D. 1889. CHAS. D. WHEAT,

SEAL.

Notary Public.



## SIXTH ANNUAL REPORT

OF THE

## BOARD OF DIRECTORS

OF THE

# Industrial Home of Mechanical Trades for the Adult Blind

FOR THE

YEAR ENDING 1890.



#### SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

## REPORT.

To the Hon. R. W. WATERMAN, Governor of the State of California:

In pursuance of law, the Board of Directors of the Industrial Home of Mechanical Trades for the Adult Blind, respectfully submits to you its sixth annual report of the management and condition of the Home.

There has been no change in the membership of the Board of Directors during the year.

The officers of the Home are as follows:

President of the Board of Directors	John P. Irish.
Vice-President of the Board	Warren Olney.
Secretary and Treasurer	L. A. Redman.
Secretary and Treasurer	Andrew Fine, M.D.
Superintendent of the Home.	Jos. Sanders.

The salary of the Superintendent is \$2,100 per annum; of the Physician \$1,200 per annum, and of the Secretary \$500 per annum. The employés of the Home and their rates of compensation are as follows:

Foreman of the workshop, per month.	\$50	00
Clerk	40	00
Assistant to the foreman		00
Teacher in Female Department	25	00
Watchman and laborer		00
Gardener		00
Drayman	25	00
Janitor	40	00
First cook	35	00
Second cook	30	00
Chambermaid		00
Three waitresses at \$20 per month each	60	00

The following are the names of the inmates present at the Home during the year, December, 1889, to December, 1890:

NAME.	Date of Admission.	Age when Admitted	Former Residence.	Native of.	Cause of Blindness.
Fred V. Anderson	July 18, 1889	8	Los Angeles	Denmark	Paralysis of optic nerve.
Maggie Aitken	October 1, 1887	ଝା	Benicia	Michigan	A mannosis.
Wm Buroos	May 7 1886	38	San Francisco	Argentine Repub.	Atrophy of optic nerve.
Ray Bagnelle	August 3, 1888	88	Fresno	Illinois	Ophthalmia.
D. Bellisle	January 2, 1888	38	San Francisco	Canada New York	Innammation.  Result of cold.
Anna M. Brissell Bernard Carlin	March 30, 1888	85	San Francisco	Pennsylvania	Unknown
Gordon Campbell	September 22, 1885	\$	Sacramento	Scotland	Inflammation from foreign substance.
John Chambers	May 2, 1887	ኤያ	Siskiyou	Kentucky	A coident in mine
Cornelius Cronin	Inay 10, 1880	3 <u>4</u>	San José	Ireland	Rheumatic iritis.
Michael Coogan	March 23, 1890	8	San Andreas	California	Accident.
John E. Coffey	December 1, 1890	8		California	Accident.
Kate Clement	September 22, 1887	83		California	Through sickness when he days old.
Leabelle Cienega	February 9, 1890	4.0 7.0	San Francisco	reland	Tranmatism
Moses Driscoll	Angust 16 1888	8	٠,	Tennessee	Granulated lids and bad treatment.
John O. Durham	June 1, 1886	9	Alameda	California	Paralysis of optic nerve.
Charles Dugan	September 30, 1889	64	San Francisco	Denmark	Accident.
John T. Dodson	August 30, 1889	23	Orland	California	Cataract.
B. S. Daniels	June 24, 1890	8;	San Mateo	Pennsylvania	Acoldent.
James Ely	August 14, 1890	2	Uakland	New Vork	A coident and cold
John H. Gaffney	January 9, 1886	16	Stockton	California.	Scarlet fever
Antoine Good	December 27, 1887	8	San Francisco	Dalmatia	Opacity cornea.
James Gordon	February 18, 1887	2	Alameda	Kentucky	Unknown.
Thomas Henderson	February 7, 1887	45	San Francisco	Scotland	Hurt on the head.
Abram E. Hite	August 31, 1885	ß;	Chico	Vontagler	Domeson Domeson
George W. Hughes	October 29, 1889	4. g	Son Tosé	Massachusetts	Scarlet fever
Samuel L. Hoover	Tune 15, 1890	359	Marysville	Illinois	Gunshot.
Pauline Howe	February 2, 1889	ঞ	San Francisco	California	Unknown.
Lizzie Hannah	September 7, 1888.	42	San Francisco	England	
James Kurley	March 4, 1886	8	Modoc County.	Illinois	Unknown.
Annie Fennell.	September 22, 1887.	35	San Francisco	Switzerland	Inflammation
Frank King	May 10, 1880	12	Monterey	Massachusetts	Born blind.
J. C. Kuckenmeister	June 13, 1890	:8	Eureka -	Germany	Accident

Daniel Krafky	June 6, 1890	18	Tulare	Minnesota	Accident,
Charles Lurch	June 27, 1886	27	Lake County	California	Inflammation.
E. H. Lamb*	September 19, 1889	22	Oakland	Massachusetts	Amaurosis.
Kobert Lowry*		_	San Francisco.	Canada	Accident.
Joseph Maduro	June 11, 1886	0 g	Serketey	New York	Illogration pornes
Remost Martin	November 10 1888	38	Con Francisco	Vermont	Spariat fever
Ioseph Miller	March 18, 1889	34	Sacramento	Canada	Born blind.
Peter Miller	February 1, 1886	44	San Buenaventura.	Iowa	Born blind.
John T. Moore	August 27, 1885	8	San Francisco	California	Injured when a boy.
Austin McLane	August 14, 1890.	88	Butte County.	California	Opacity cornea,
Emma L. Mast	September 22, 1887	24	San Francisco	California	Unknown.
D. C. Mullaney	November 14, 1889	57	San Francisco	New York	Cold in eyes.
B. T. Nelson	March 12, 1888	84	Sacramento	New York	Exposure and heavy lifting.
Catherine O'Rourke	February 7, 1889	21	San Francisco	Ireland	Accident
Henry Parker	May 22, 1887	72	Siskiyou County	Sandwich Islands.	Exposure and bad treatment.
Edward Porter	September 22, 1885.	83	Placer County	California	Lifting heavy weights.
Thomas Powers	October 19, 1885	<del>4</del>	San Francisco	Ireland	Fowder accident.
Lawrence Riley	May 14, 1886	e e	San Francisco	New York	Unknown
Joseph Riley	June 19, 1890	47	Oroville	Ireland	Opacity cornea.
C. L. Robinson+	June 23, 1890	8	San Francisco	Ireland	Cataract
Jennie Root	October 21, 1890		San José	California	Amaurosis.
John Sexton	August 27, 1885	27	San Francisco	Ireland	Brain fever.
Cornelius Shea	October 31, 1885	20	San Francisco	Ireland	Fever.
E. F. Smith	September 7, 1885	19	Oakland	North Carolina	Glaucoma
W. A. Staggs	November 1, 1888	8	Napa	California	Unknown
M. N. Stanovich	November 10, 1885	4	San Francisco	Austria	Neuralgia.
Jacob Storck.	December 19, 1885	 ??	Butte County	Germany	Unknown,
Richard Sublett	May 12, 1887	88	San Francisco	California	Injury to optic nerve.
V. Swotellis	December 27, 1887	덩	San José	Russia	Unknown.
A. Schreiber	January 9, 1890.	86	San Francisco	Prussia	Accident.
Helena Schau	May 28, 1890	29	San Francisco.	Germany	Born blind.
Patrick Tighe	October 29, 1885	ස	San Francisco	Ireland	Accident while working in iron.
H. C. Tuck	October 11, 1889	33	Graniteville	Maine	Accident.
Mary Tenney	January 21, 1896	23	Oakland	New York	Cold and measles.
Daniel Weider	August 28, 1885	ຂ	Oakland	Iowa	Unknown.
Wm. P. Wilson	November 1, 1888	2	San Francisco	Sweden	
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Following are the monthly returns from the sale of manufactured goods during the year:

1889—December	\$1,572 85
1890—January	1.429 90
February	1.572 80
March	1,505 35
April	1,977 85
May	1,786 00
June	2,627 80
July	1,335 70
August	
September	
October	1,258 15
November	1,247 25
Total	\$19,473 30

These returns are forwarded monthly to the State Treasurer and placed by him in the fund of the Home, where they are drawn against by the Board, thus constituting a revolving fund for the Home. As shown by the schedule given above, the total amount drawn from the several funds of the Home and expended by the Board, is the sum of \$53,160 48.

As against this sum there exists the following credits in favor of the Home:

Amount returned to State Treasurer Raw material now on hand Manufactured stock now on hand Bills receivable	4,161 18 2,392 64
(Total	#20 011 01

Deducting these amounts from the above sum of \$53,160 48, we get \$23.148 51.

To this should be added the following credits on hand a year ago, which have been realized upon and form a part of the amount returned to the State Treasurer during the year:

Raw material on hand December 1, 1889  Manufactured stock on hand December 1, 1889  Bills receivable December 1, 1889	2,417 62
,	\$9,586 37 23,148 57

Which is the total net expenditure of the Home during the year. Of this sum there was expended:

For building and permanent improvements For machinery For furniture	172 39
Total	\$12.450.32

Which sum being deducted from the above sum of \$32,734 94, leaves the actual running expenses of the Home for the year, \$20,284 62.

The gross earnings of the inmates for the year were \$256 22 per capita. Their wages per capita were \$83 96.

The net cost per capita after deducting all credits was \$266 90.

It must be remembered, however, that these averages do not represent the earnings or the wages of the active working force of inmates. The more the asylum feature of the Home gains upon its industrial feature,

blind women, whose industry, appreciation, and assistance to the insti-

REPORT OF DIRECTORS OF HOME FOR ADULT BLIND.

the hospital on the workshop, the greater will be the disproportion between the cost of support per capita and the earnings turned into the

REPORT OF DIRECTORS OF HOME FOR ADULT BLIND.

Treasury and the wages per capita.

The Home has begun to show a gain of the workshop on the hospital. At the time of its establishment the streets were full of adult blind, sightless for many years, nearly superannuated, and much broken physically and mentally through lack of occupation. Many such were in the public almshouses, or divided their time between semi-beggary and those

institutions, all the time a charge upon the public.

It was natural that in its beginning the Home should catch a percentage of this class which could do but little service in the workshop, but raised the general cost of support. It is natural also, that the foreclosure of time will reduce the percentage of this class, which is wholly or partially non-contributive to the industrial returns of the institution, and the percentage of those qualified for constant service in the workshop will continue its present increase. If it be possible for every inmate to become a steady contributive worker, the cost of support per capita will not be increased, but the earnings and wages per capita will gain largely. When every one does work there will be left between the cost of support and the earnings of the Home only the impassable margin between the productive power of blind mechanics and those of full faculties. This margin will be narrowed by skill and by economy of superintendency, but can never be obliterated. Meantime, however, the Revolving Fund to which the inmates have this year contributed the large sum of \$19,473 30, will go on increasing until it will constitute a permanent endowment approximately equal to the support of the insti-

The Directors call the attention of the State to the remarkable fact that with all the decrepit and non-working and apprentice classes in the Home, it is able, notwithstanding, to pay into the Treasury the sum of \$256 22 per capita, by reason of its most economical domestic administration and its fine commercial management. This fact derives its chief significance from the blindness of the efficient Superintendent, Mr. Joseph Sanders. The Directors were able, by securing his services, to put the Home in line with the most successful of similar institutions elsewhere, which have realized their highest expectations only when their discipline and organization, being for the blind, were administered

by the blind. The Directors are pleased to note that many of the inmates, out of

their wages, have not only clothed themselves comfortably, but have put by savings bank deposits, which, by a few years' accumulation, will lift them above the necessity of public benevolence. This is the purpose for which the Home was created by the State, and it is pleasant to

know that while the support of all the inmates, active and non-active, costs less per capita than if they were in the Almshouse, at the same

time they are being equipped for self-support and future independence

of public or private charity.

The new dormitory, as will be seen by the financial report, was built for less than the amount appropriated for that purpose. The enlargement of the shop, storage, dining, and other needed rooms, permitted by the intelligent liberality of the State, has been effected. By construction of a cottage for the Superintendent, the large central building has been devoted entirely to administrative purposes and the separate use of the

The Directors find an increasing pressure for admission of blind paralytics, epileptics, total cripples, and others who, in addition to blindness, are otherwise physically incapable or mentally imbecile, and require constant attention in nursing and medication. Of course the reception and maintenance of such is without the scope of this institu-

tion, and would so overload it as to obscure and perhaps destroy its valued and profitable industrial feature. The pressure mentioned may grow to such magnitude as to indicate the need of a separate foundation as a public or private benevolence, in the nature of a hospital, for those who add to blindness other physical or mental defects which make it

impossible for them to care for themselves at all.

tution it is a pleasure to notice and commend.

The Board renews its expression of approval of the tried and experienced staff of officers and employés of the Home who have made its interests theirs, and have administered its affairs with fidelity, economy, and devotion to its benevolent and praiseworthy purpose.

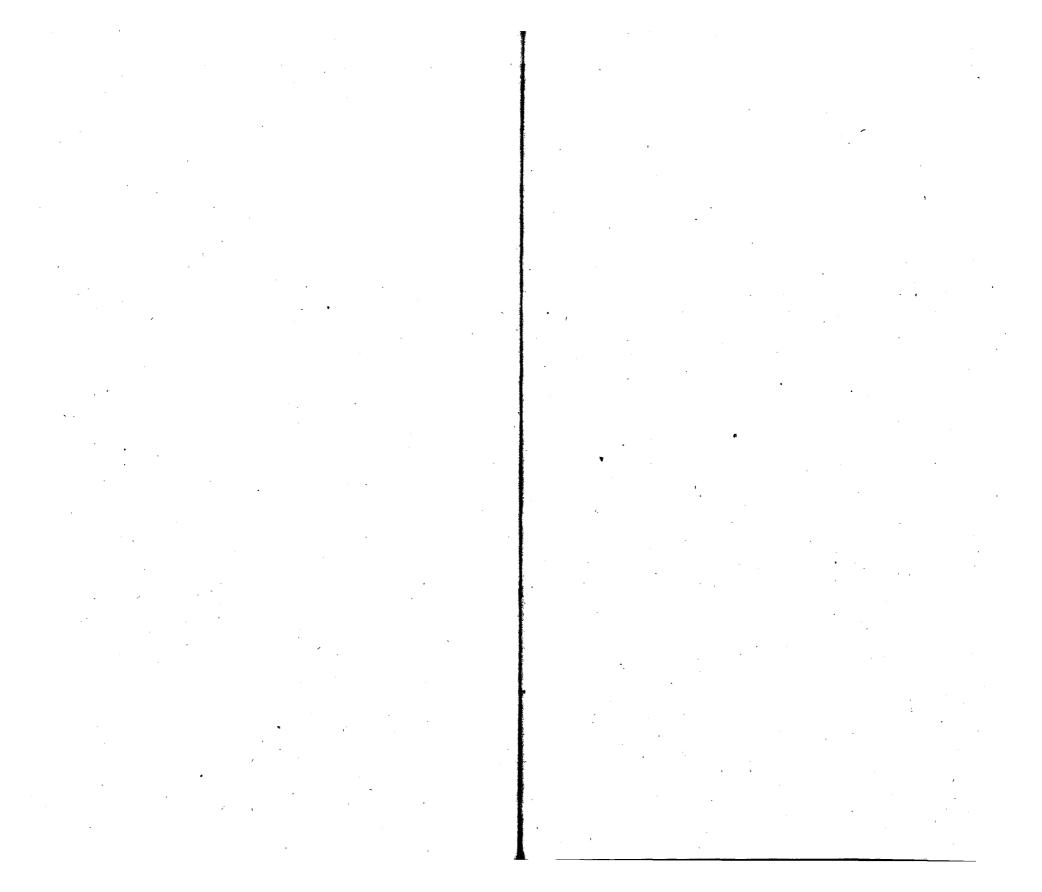
JOHN P. IRISH. President of the Board of Directors. Subscribed and sworn to before me this twenty-sixth day of December, A. D. 1890.

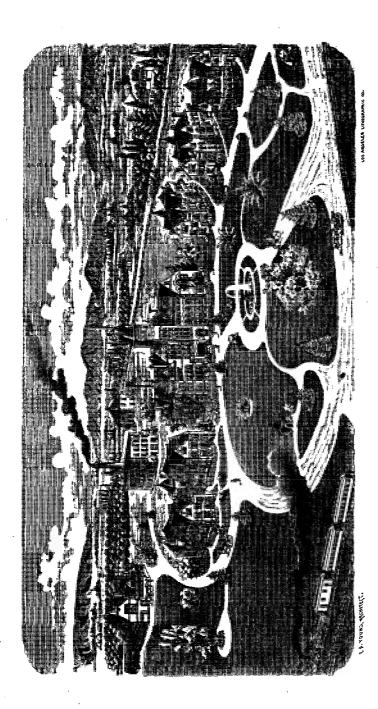
SEAL.

CHAS. D. WHEAT, Notary Public.

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## REPORT

BOARD OF TRUSTEES

OF THE

## REFORM SCHOOL FOR JUVENILE OFFENDERS,

LOCATED AT WHITTIER, LOS ANGELES COUNTY,

FOR THE

TWENTY MONTHS ENDING NOVEMBER 30, 1890.



### SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING.  $1\,8\,9\,0\,.$ 

## REPORT.

To his Excellency R. W. WATERMAN, Governor of California:

SIR: The Board of Trustees appointed by you under Act of Assembly and Senate, approved March 11, 1889, to establish a State Reform School for Juvenile Offenders, and to make an appropriation therefor, beg to make the following as their first report: They have accepted a donation of forty acres of land on the Southern Pacific Railroad, adjoining the Quaker village of Whittier, thirteen miles from the city of Los Angeles. They have also bonded, subject to the action of the Legislature, one hundred and twenty acres of land adjacent to the above mentioned forty, at \$200 per acre. This additional land is needed, as it is our desire to have a large proportion of the boys in this school thoroughly taught fruit growing, vegetable gardening, stock raising, dairying, and the care of poultry, so that while some of the pupils will be made skillful in each of these useful vocations, they will at the same time be producing much of the food necessary for the school.

Immediately after the deed of the forty acres of land was filed with the Secretary of State, the Board of Trustees employed a gardener and laborers and had the grounds judiciously laid out and planted with fruit and shade trees, and a portion of it sowed in alfalfa and barley. Two thousand two hundred and forty-two trees are now making a vigorous growth, besides a large number of flowering shrubs and ornamental plants. We have in the barn forty tons of hay from the barley

and alfalfa, and the State's stock has excellent pasture.

There have been great changes in the last twenty years in the buildings for and control of reform schools, and we deemed it necessary to send a committee, a member of which was a competent architect, to visit the most noted eastern institutions of this character. This committee reported in favor of one central structure to be known as the Administration Building, to be surrounded by "cottages" that would each accommodate a family of fifty boys; each family to be in charge of a man and his wife and a teacher. These families to be composed as near as possible of pupils of similar age and similar culpability or innocence.

Plans were carefully prepared that met with the approval of the Trustees, and which were then submitted to you, and after a careful

examination received your indorsement.

Building was then immediately commenced, and on the twelfth of February, in the presence of twelve thousand people, the corner-stone of the Administration Building was laid under your auspices, with the impressive ceremonies conducted by the Grand Lodge of Free and Accepted Masons of California. We now beg to report the following buildings completed:

First—A large substantial barn, cow sheds, corral, and poultry sheds, and including rooms, hot and cold water, and all conveniences for the residence of the farmer. The whole of ample size for the institution

when it assumes active work.

Second—Conservatory for propagating trees and plants for the orchard and garden, with room for garden tools and implements.

Third—Residence of gardener. A comfortable frame building.

Fourth—Three-story brick power house and trades building. In the first story of this building is a room for forges for teaching blacksmithing, a room for engines and dynamos for supplying heat and light for all the buildings, and a room for storage of fuel. On the second floor are rooms for carpenter shop and paint shop, while on the third floor will be a printing establishment where boys who appear to be adapted to the work can become printers and publish a school paper. There will also be on this floor a shoe shop, where the shoes for the school will be made by the boys themselves, under the superintendence of a skilled workman.

Fifth—A girls' cottage of ten rooms. This is entirely isolated from the other buildings, as the bill provides for the "absolute exclusion of all communication of any kind or character between the sexes."

Sixth—The Administration Building, four stories and basement, of brick and stone. This is a beautiful substantial structure two hundred and four feet long and one hundred and six feet deep, and faces the east.

The basement is well lighted and has a cement floor. In the north wing is a wash-room thirty-six feet six inches wide and fifty-one feet eight inches long. Here are long basins over which the boys wash their hands and faces. Each boy washes in a stream of running water from a separate hydrant and uses a separate towel. This is done to avoid the contagion liable to result from washing in the same water with, or using the same towels used by boys having skin diseases or sore eyes. There are in this room one hundred and fifty of these hydrants, so that one hundred and fifty boys can wash at once. There is also in this room a large water-closet. Adjoining is a room for plunge bath and shower bath. This room is thirty-six feet wide by forty-nine feet long, and also contains a large number of wire lockers, where the boys can leave their ordinary clothing when they change for Sundays or holidays. In the central part of the basement is a play-room forty-eight feet six inches by thirty-six feet nine inches, to be used in inclement weather. There is a milk-room twenty-six feet by thirty feet, and a butter and ice-room twenty-two feet by eighteen feet, and a meat-room twenty-six feet by ten feet. In the south wing of the basement is a boys' dining-room forty-five feet eleven inches by forty-two feet, a bakery and bread-room forty-seven feet six inches by twenty-two feet, and a kitchen, including range, pantry, etc., twenty-three feet one inch by thirty-seven feet four inches.

First floor consists of the chapel one hundred feet by forty feet, capable of seating five hundred pupils. It is expected that this Administration Building will be surrounded by "cottages" containing families of fifty each, and that all will assemble in this chapel for literary and musical exercises and moral instruction. In the central portion of the first floor is a school-room thirty-five feet six inches by thirty-two feet ten inches, with adjoining hat-room; pharmacy, twenty-four feet by fourteen feet eight inches; reception-room, twenty-two feet six inches by eighteen feet six inches; office of clerk and bookkeeper, nineteen feet eight inches by nineteen feet two inches, and halls twelve feet eight inches wide. In the south wing of the first floor are employes' sittingroom, fourteen feet eight inches by sixteen feet eight inches; employés'

dining-room, twenty-five feet by fourteen feet eight inches; four rooms for residence of Superintendent, including bath-room, water-closets, and other closets, and a kitchen for employes and Superintendent and family, eighteen feet by twenty-one feet nine inches. There are six entrances to the first floor, with suitable steps and balconies.

In the north wing of the second floor is the gallery of the chapel. In the south wing and center of the second floor is a school-room, thirtythree feet two inches by thirty-five feet; Superintendent's office, twentyfour feet eight inches by twenty-eight feet; seven bed-rooms for employés; Trustees' room, eighteen feet six inches by twenty-two feet six inches; and a tailor shop, twenty-eight feet ten inches by fifty feet, where a class of boys will be taught tailoring, and will make and repair the clothing for all of the pupils in the school.

On the third floor is a dormitory fifty feet ten inches by thirty-six feet six inches, containing an individual locker for each boy, where he can keep his clothing; a reading-room and library, thirty-nine feet one inch by thirty-five feet ten inches; a dormitory, thirty-three feet by fifty feet,

and five bed-rooms for employés.

On the fourth floor is a dormitory fifty-two feet by thirty-eight feet; three rooms to be used for sick pupils; one bed-room for employés; one dormitory, forty feet by forty-five feet, and a storage-room for bedding, etc., forty-eight feet by twenty-four feet; three spacious staircases and elevator lead from the basement to the fourth floor. On each floor are wide halls and a suitable number of bath-rooms, water-closets, and clothes-closets.

The attic will be fitted up for music and band-room, as a suitable bandmaster will be secured and a band organized, composed entirely of the boys of the school. One of the teachers must have sufficient knowledge in military tactics to drill the boys in ordinary maneuvers.

In the sixth story of the tower are hot and cold water tanks.

In the seventh story of the tower is a room to be used as an observatory.

The eighth story of the tower is for the clock.

On each floor are fire hydrants and hose.

We now have this school almost ready for students, and we are glad to say that in every step we have had your assistance and counsel. It has been through your interest and encouragement in this endeavor to save the youth of this land that we have been enabled to erect these

buildings in such a comparatively short time.

There are two amendments to the present Act that we hope to have enacted by the ensuing Legislature. First, to change the name of "Reform School for Juvenile Offenders" to "Whittier School of Trades and Agriculture," thus removing the stigma of the word "reform" from the pupils. It will be a school of trades and agriculture, and such a name well describes its work. In giving this name this State will be paying a graceful tribute to the aged Quaker poet, now eighty-three years old, who has ever been the advocate of industrious habits, freedom, and education. Rhode Island, Ohio, and a number of other States have dropped the word "reform" from the name of their institutions of this character.

The second amendment is to provide that all the youths sent to this school be so committed until they are twenty-one years of age, unless, in the judgment of the Trustees, they are sooner reformed. We believe that probably the greatest work of this institution will be to find out what the pupils are best adapted to, teach them to do it, and whenever possible find them homes in good Christian families where their education will be properly continued under home influences. When sending a boy away from the school under these circumstances we desire not to discharge him, but only to parole him. If he does well and is well treated in his new home he will be left there, but we desire him and the one who has agreed to educate him to know that should either party fail to do his duty we could recall the boy to the school without process of law. We hope to be given the power to act as guardian to these wayward youths until they become of age, and try in this manner to place them on the stage of manhood well equipped for the great drama of life.

REFORM SCHOOL FOR JUVENILE OFFENDERS.

After a careful estimate of the cost of maintaining the school for the two and a half fiscal years ending June 30, 1893, we find that to clothe, board, and teach three hundred pupils for that length of time, including all salaries, will cost \$162,750. One half of this is to be paid by the counties from which the boys are sent. We therefore ask the Legislature

for an appropriation for maintenance of \$81,383.

It will require for water, pipe-lines, and the construction of reservoir, and piping the same to buildings and over the land, an outlay of \$15,000. There is a water right, running with the land upon which these buildings are erected, belonging to the State from the San Gabriel River.

To purchase electric light plant and engines to furnish power for all shops, for elevators, for electric light, for steam-heating the Administration Building, and necessary machinery and attachments, will cost \$15,500. Furnishing and thoroughly equipping Administration Building and Girls' Cottage will cost \$20,000. To fitting up Industrial Building with machinery and tools for systematic instruction in the theory and practice of the mechanic arts, such as carpentry, blacksmithing, lathe and pattern work, and printing, will cost \$5,000.

The present buildings will not accommodate the pupils already waiting to enter, and there will be immediately demanded three additional brick family buildings that will each accommodate fifty pupils. To erect and equip these buildings will cost \$100,000. For elevators we need an appropriation of \$5,000. There is also needed for the purchase of one hundred and twenty acres of bonded land an appropriation of \$24,000. For fruit trees, shrubs, plants, etc., we need an appropriation of \$3,000. For the purchase of vehicles, live stock, and agricultural implements, an appropriation is needed of \$5,000.

The following is our financial statement for the twenty months of our service as Trustees:

STATEMENT, NOVEMBER 24, 1890.

Appropriation by State of California  Moneys received and disbursed by George Mason,		\$200,000 00
Transport of fallows.		
Treasurer, as follows:	Ø11 000 44	
For salaries.	<b>\$11,038 44</b>	
For office expenses	1,265 31	
For live stock and stable	2.183 28	
For tools and implements	478 32	
For garden and grounds	1,483 30	
For Trustees' expenses.	4,269 45	
For material (lumber, water pipe, etc.)	2,631 24	
For labor	8,727 59	
For architect's fees	4,128 35	•
For water account (boring well)	484 40	
For freight and express	<b>72</b> 85	
For groceries, provisions, etc.	303 96	

	65			
For contract for barn, sheds, etc., with A. H. Don- necken 13,900	00			
For contract Girls' Cottage, with J. M. Skinner and A. F. Mackay 4,000	00			
	66			
	00			
For insurance 253	05			
For insurance 258  For contract for Administration and Factory Buildings, with J. M. Skinner and A. F. Mackay				
(eight payments) 87,000	00			
For Administration Building (extra work) 1,208	41			
For miscellaneous 4,524	86			
		\$149,302	12	
Due R. B. Young, architect, when buildings are accepted by Tr	775-			
tees  Due Skinner & Mackay for erection of Administration and Fact		3,233	35	
Buildings, ninth and tenth payments.		42,334	00	
Balance on hand		5,130		

\$200,000 00 \$200,000 00

The further we go with this work the more its magnitude and importance is revealed to us. The State of California has wisely paid millions and millions of dollars for building, equipment, and maintenance of the State University and Normal Schools, where the fortunate youth of our commonwealth are educated; but for the unfortunate, those who through incapacity or death of parents, or through abject poverty and through hereditary criminal tendencies are thrown upon our streets before they have reached years of discretion, California has done absolutely nothing. Millions of dollars are spent annually by the State, caring for these unfortunates after they have become adults and entered our penitentiaries and insane asylums; but nothing has been done in this State toward taking these youth who have started on the broad road to ruin, teaching them useful trades, habits of industry, and depriving them of the baleful effect of opium, tobacco, alcohol, and impure associations. The result is that California has become notorious for her hoodlums. her insane, and her criminals. We ask you, and through you the Legislature, to hold up our hands; support us in this work we are about inaugurating.

The ideal reform school takes these boys, gives them a good common school education; gives them proper, healthful recreation; studies each one; gives each individual the work or trade he seems best adapted for; makes him skillful in that work; implants hope, self-respect, and ambition in his heart; and, when he goes out from the school still watches him, aids him, and encourages him. This is no experiment we are asking you to further, aid, and indorse. For a half century these industrial, reformatory homes have been in successful operation in Europe and America. Several of the States have two of these schools, and almost all have one. The schools of New Jersey, Rhode Island, Connecticut, and Michigan are particularly noted. The school at Lancaster, Ohio, is one of the most famous. It has over one thousand pupils, and a farm of twelve hundred acres. Everything is done in these schools to make them beautiful, homelike, and to avoid all the attributes of a penal and become distinctively an educational institution. Carefully prepared statistics prove that 90 per cent of the pupils in these schools become good citizens.

To save the criminally inclined youth of this State; to take their corrupting influence from our streets; to train and educate them men-

tally, morally, and physically, so that they will spend their manhood years as farmers, mechanics, and honest laborers, instead of in penitentiaries and insane asylums; to make these boys the bulwark and pride of the State, instead of the burden and shame of our commonwealth—these are the objects of this school, and this is the cause we plead.

Very respectfully yours,

HERVEY LINDLEY, President, JAS. R. LOWE, JOSIAH SIMS,

Trustees of the State Reform School for Juvenile Offenders. Whittier, November 28, 1890.

## FIRST BIENNIAL REPORT

OF THE

## SECRETARY

OF THE

## PRESTON SCHOOL OF INDUSTRY

(AT IONE),

DECEMBER 31, 1890.



#### SACRAMENTO:

STATE OFFICE, : : : : : : J. D. YOUNG, SUPT. STATE PRINTING. 1890.

### DIRECTORS OF THE PRESTON SCHOOL OF INDUSTRY.

ROBT. T. DEVLIN, President	Sacramento.
CHARLES SONNTAG	
EDGAR J. DEPUE	San Francisco.
JOSEPH CRAIG	Woodland.
PATRICK REDDY	

DECEMBER 31, 1890.

To his Excellency R. W. WATERMAN, Governor of California:

In our report made November 15, 1890, we called attention to the necessity of additional appropriations for the completion of the Preston School of Industry, at Ione, but we were unable at that time to suggest the amount that would be required. Since the rendition of that report, our Secretary, Mr. Brainard F. Smith, has carefully computed, after consultation with our architect, the various amounts that they both consider requisite. For your information, and that of the Legislature, we file the report of Mr. Smith as a supplemental report.

ROBT. T. DEVLIN,
P. REDDY,
EDGAR J. DEPUE,
JOSEPH CRAIG,
State Board of Prison Directors.

### REPORT.

To the honorable the State Board of Prison Directors:

GENTLEMEN: As nearly two years have now lapsed since the creation of the Preston School of Industry by legislative enactment, it may not be amiss to refresh your memories by a short history of Senate Bill No. 402—this bill being the parent from whose loins the present Act sprang. It may not be inappropriate also to give a resumé of your official acts as Directors of this School of Industry since the approval of the Act by Governor R. W. Waterman, on March 11, 1889.

Senate Bill No. 402 was originally drawn up by Senator E. M. Preston, of Nevada County, and introduced by him January 29, 1889. It was referred to the Committee on State Prisons and Prison Buildings. The bill, in its primitive form, provided for the establishment of a "State Reform School" at or near the town of Folsom, in the county of Sacramento, and appropriated \$160,000 for the purpose of carrying out the

provisions of the bill.

The reasons that actuated Senator Preston in selecting and naming Folsom for the location of the school, and in designating \$160,000 as the amount to be appropriated, were many, varied, and complex. As the Legislature, deeming it best not to place the school in close juxtaposition to a State Prison, enacted that it should be established in Amador County, it would be superfluous and unnecessary to give the Senator's motives in choosing Folsom as the site, except so far as they influenced him in naming the original sum mentioned to be appropriated. But since the location proposed had a very material and important bearing upon the amount of money asked for, and since all your actions as Directors have been vitally affected by the sum given you by the Legislature, it seems especially proper and just that some of the reasons should be given, in this history of Senate Bill No. 402, why Senator Preston designated \$160,000 as the proper amount to be appropriated.

Senator Preston saw a magnificent quarry of granite within a stone's throw of the proposed site, belonging to the State, fully opened and easy of access; a railroad, with stone cars running from this quarry to the contemplated location of the buildings, all the appliances, tools, machinery, etc., for rapidly and successfully quarrying and delivering this granite; brick-clay and wood in abundance upon the selected grounds, for the making of bricks; sand and gravel for mortar and concrete, without limit in the American River, close to hand-all belonging to the State. He saw a State Prison full of brawn, brain, and convict muscle to be utilized in the working of stone, in the making and laying of bricks, and in all the other branches of labor connected with and pertaining to the erection of buildings. He saw wagons, horses, tools, and implements of all sorts, belonging to the State Prison, to aid felon labor in the work of construction. Within half a mile from the selected location was a grand water power being developed, and a power house in process of erection at Folsom Prison for the utilization of this power in the generation of electric light, in the pumping of water for irrigation and domestic purposes, and for its application to mechanical and other manufacturing uses as a substitute for steam power. He found a gas house with a gas machine at Folsom Prison for the making of illuminating gas for the benefit of this proposed school. He learned that there were over four hundred acres of land surrounding the prison, some of which could be diverted to the uses of this institution—everything belonging to the State, and all to be utilized and used in the erection and establishment of this State Reform School without cost to the State.

With this end in view, Senate Bill No. 402, as proposed by Senator Preston, contained the following provisions:

SEC. 5. The Board is authorized and empowered to set apart and occupy so much of the otherwise unoccupied land, now owned or that may be hereafter owned or acquired by the State at or near the town of Folsom, for the use and occupancy of the said institution, or to purchase such lands adjacent to the prison tract as may be deemed necessary.

SEC. 7. The Board is authorized and empowered in the creation of buildings and the improvements, to use such supplies and materials from the prison at Folsom as may be available, and as can be diverted to such use without material detriment to the welfare of the prison; including convict labor, water and water power, electric power, rock from the quarries, and such other appliances, or articles manufactured at the prison, as may be required.

SEC. 8. From and after the time that the premises are ready for occupancy the Board may divert to said premises such water and water power, electric currents, illuminating gas, articles manufactured in the prison, and other appliances from the prison premises as may be required, and as can, in their opinion, be thus diverted without material

injury to the State Prison.

With these provisions incorporated in the bill, Senator Preston reasoned that \$160,000 would be ample to build and equip an institution second to none in the State. Those who assisted him in the framing of his bill agreed with him fully as to the sufficiency of the amount designated, subject to and under these specifications respecting location, prison labor, prison supplies, etc., but under no other circumstances. In fixing the figures at \$160,000 there was no other idea entertained or considered than that this sum would be adequate to establish a State Reform School, provided there should be no expenditure of money for any of the matters and things mentioned as belonging to the State and capable of being transferred and used by the Board. Should the institution be established at any other location in the State, a like condition of favorable circumstances could not occur or exist, and under no other possible surroundings or contingencies would \$160,000 be ample, sufficient, and adequate.

The promoters and friends of this measure, for saving and educating a class of the young, apparently doomed to abject ignorance and a life of criminal pursuits, fully and thoroughly appreciated the fact that unless this crime curing and crime preventive institution was erected at Folsom, by the means and methods proposed, the amount asked for would be utterly insignificant and insufficient for its requirements. It is a sad commentary on the moral status of our times when estimates are given by reliable authorities, placing the number of boys in our State who are fit candidates for reformatory institutions at from one thousand five hundred to two thousand. The cry has been coming from the lips of nearly every Judge of every Court in our land, "What shall we do with these boys!" Our penitentiaries are filled, not with old criminals, but with young felons. The hearts of the observing are sad-

dened as they contemplate the rapidly increasing number of boys of tender years brought before our Courts for punishment.

Senator Preston and his confreres knew that no small or limited accommodations would be equal to the demands of our erring boys. He and his associates in the drafting of this reformatory measure weighed well in their minds the present and future requirements of the proposed Reform School, and reckoned to a certainty that buildings must be erected and provisions made to accommodate from two hundred and fifty to five hundred inmates, at the very least, from the time of the throwing open of its portals for their reception.

All these points were considered in the framing of the original bill,

and assisted in fixing the sum asked for at \$160,000.

So much for the ideas of Senator Preston and his friends regarding the location of the State Reform School at Folsom and his reasons for asking for an appropriation of \$160,000.

As said before, this Senate Bill No. 402 was referred to the Committee

on State Prisons and Prison Buildings.

When returned to the Senate, it was in a modified and changed form. Instead of being designated as "The State Reform School," the institution is named "The Preston School of Industry," in honor of the framer and father of the original measure. The location is changed from "at or near Folsom, in the county of Sacramento," to "at or within a convenient distance from Ione City, in the county of Amador." Where the original bill provided for the setting apart of land, water power, electric power and electric currents, illuminating gas, etc., the change in location makes it imperative for the State to purchase from one hundred to three hundred acres of land and the buying of water facilities sufficient for the uses of said school and for power in operating machinery. Aside from these changes and modifications, the bill, as returned by the committee with its approval, was essentially unchanged from its primitive form. But these alterations were like removing its heart and lungs.

The advocates and engineers who so successfully brought about the change in location were conscious that an increase in appropriation could not be asked, they being shrewd enough to know that should a larger amount be petitioned for, all hopes of accomplishing their efforts would be lost, for the committee would then refuse the substitution of sites. For this reason no variation appeared in the section fixing the appropriation at \$160,000.

Suffice it to say, that the amended measure passed both the Assembly and the Senate by an almost unanimous vote, and was approved by

Governor R. W. Waterman March 11, 1889.

Such is the history of the creation of the Preston School of Industry by legislative enactment.

#### OFFICIAL ACTS OF THE BOARD OF DIRECTORS.

On March 11, 1889, began your duties and responsibilities as Directors of the Preston School of Industry.

It may be well to preface a resumé of your official acts by a statement of some of the difficulties under which you labored, and the perplex and complex questions you were called upon to answer.

The proposition of a suitable site, having water facilities sufficient for the uses of the school and for power in operating machinery, was a hard

one to solve. Remember, there was no latitude given you to figure the problem as to whether coal, costing from \$1 50 to \$2 per ton, would not be a cheaper power in operating machinery than a water system, with its long lines of ditches, pipes, flumes, etc. Suitable sites having water facilities required by the Act are by no means plentiful. Like angels' visits, they are few and far between.

REPORT OF PRESTON SCHOOL OF INDUSTRY.

It was no simple question to settle as to the amount of water power adequate to fill the demands of the institution. It was no easy matter to select a site within a convenient distance both to Ione City and to a water power. Water powers convenient to populous cities and communities are extremely rare. Water powers, with water rights and privileges handy to towns situated as Ione, are valuable properties, and you found difficulties of a financial nature staring you in the face. One of the queries was: How much money could or should you invest for the State in water rights with water privileges for power and other purposes?

To have a thing, in the eyes of the law, is to own it. To own water rights and water powers one must have a title to them; and every one versed in such matters knows that there is no title so fickle, unstable, and uncertain as a title to water rights. No title so hard to establish and prove as the ownership of water. It is more a title of testimony than of record. In searching the title of one right, it becomes necessary to examine the titles and claims of every other water right upon the same watershed. The difficulties encompassing your search for a clear and absolute title to the State for water privileges sufficient for the uses prescribed were great and extended.

You met with perplexities when it came to a selection of one system in preference to others. Each system had its advantages and its disadvantages. No single proposition was perfect or an ideal system of water power. How well and how successfully you met and overcame all obstacles and solved all perplexing problems, the results best show.

The first official act of your honorable Board was a preliminary visit to Ione City on March 23, 1889. An informal meeting was held with the residents of that section for the purpose of gaining general information. It was a spying out of the land.

After due deliberation a blank form was drawn up for the use of those desiring to make offers of sites and of water privileges as per the conditions of the Act. Advertisements were inserted in two of the Amador County papers, for the space of eight weeks, calling for offers of sites, water, etc.

In pursuance with the terms of this advertisement, the Board met in Ione City on July 27, 1889, to open the sealed bids received. Twentytwo different sites were offered and six sources of water supply.

The selection of a location with water facilities for power and other purposes, requiring a knowledge of the science of civil and hydraulic engineering, the Board decided to employ the services of Col. A. W. von Schmidt, he being an engineer of note, to investigate into and report upon such matters before any action should be taken upon the offers made.

Pending these investigations Robert T. Devlin, President of the Board. by virtue of a resolution by the Board, and in accordance with a provision in the Act establishing the school, visited similar institutions in practical operation, and of the best repute in the older Eastern States, and personally inspected and investigated into their principles and workings, their systems of government, instruction, and discipline, for the information and benefit of the Board. The result of this visit of inspection has been embodied in an extended report by him and published in pamphlet form by the State Printer.

I would state, parenthetically, that the plans adopted by the Board for the main Administration Building, with its annex, as submitted by the architect of the Board, are modified copies of the plans of the State Reform School of the State of Minnesota, obtained by President Devlin while East, the buildings being somewhat reduced in size by the architect, owing to the smallness of the appropriation at your command. The plans for the cottages are also taken from drawings of like buildings inspected by him while on his tour of observation, changed to meet the climatic requirements and particular wants of this locality.

On November 29, 1889, soon after the return of President Devlin, the Board met, and Colonel von Schmidt presented his report.

In general, he condemned the various sites offered, in conjunction with the water powers and water supplies proposed. His condemnation of the water powers and water supplies was moderated, both in this report and a supplemental one made by him, by affirming that ample power and a sufficiency of water for all purposes could be obtained by the making of a reservoir for the storage of water at a place called and known as the Henderson Place, situated about four miles distant from Ione City.

After consideration, the Board resolved to readvertise for offers of sites with water facilities. This conclusion was arrived at from the imperfect and indefinite manner in which many of the water offers had been made, coupled with a desire to do justice to all those having locations and water to offer.

Accordingly, new offers were solicited by readvertisement, and, upon December 28, 1889, the Board met to receive bids. Seventeen offers of sites were received, and six water systems.

It was at this meeting that the Board resolved: "no tract of land outside a radius of three miles from the railroad depot at Ione should be purchased, if a suitable site could be obtained within such limits," it being of the opinion that all locations outside of this limit were not within a convenient distance to Ione City.

Eventually all offers of land were rejected—some of the sites offered not being suitable, and others being quoted at figures higher than the Board felt justified in accepting for the State.

Thereupon the Ione Coal and Iron Company, a corporation owning large tracts of land in the vicinity of Ione City, upon solicitation by the Board, offered to sell the State two hundred and thirty acres at a lower price than any heretofore offered, and to generously donate one hundred acres, allowing the Board to select the land from the company's holdings. The offer of this company was accepted, and a tract of land chosen lying to the north of and about one half mile distant from Ione City, containing three hundred and thirty and twenty-nine one hundredths acres.

From the several water propositions presented, there was one that seemed more feasible, reasonable, and satisfactory to the Board than the others. This proposition carried with it the absolute and sole right and title to the first seven hundred and fifty inches, miner's measurement

of the waters of Sutter Creek—two water ditches, with all their rights of way, flumes, pipe-lines, etc., of a delivery capacity of from four hundred to five hundred miner's inches—with a pressure of not less than two hundred and twenty-five feet on the highest point of ground upon the site selected as a location for the school; also, forty-nine and seventeen one hundredths acres of land, with a substantial dam erected thereon fifty feet high and five hundred and fifty feet long, provided with all the proper and necessary waste ways, water pipes, water gates, etc., for the forming of a reservoir with a storage capacity of about three hundred million gallons of water. There was further attached to this proposition, a guarantee bond that the water and water rights offered, appurtenant to Sutter Creek, should give during six months in the year seven hundred and fifty inches of water, measured under a four-inch pressure, and that the water and water rights, together with the water stored in the reservoir, should give at the lowest stage of the water at least two hundred and fifty inches, measured under a four-inch pressure, and not less than two hundred and fifty inches at all times.

Before rejecting the other water offers, however, the Board appointed S. F. Taylor, a civil engineer of prominence, to examine fully and thoroughly into the merits of the proposition referred to. His report in part was as follows (report dated March 3, 1890):

"The Henderson reservoir site is situated about four miles northeast from the town of Ione, in Amador County, and by the construction of a dam sixty feet in height will contain in round numbers twenty-nine acres, and will have a capacity of 409,800,000 gallons. As to the flow of water in Sutter Creek, from which the supply is taken, I found from actual measurements to contain 102 square feet, with a velocity of 29.7 feet per second, equal to 114,000 miner's inches for ten hours. By careful inquiry and examination I am satisfied that Sutter Creek above the dam will supply for six months in the year a water area of sixteen square feet, equal to 1,700 miner's inches for ten hours. While I have calculated on only six months' flow of water in Sutter Creek, there is a certainty of its being from eight to nine months, and this year the entire twelve months.

"As to motive power desired, I am slightly in the dark, but assuming one hundred and thirty horse-power will be all that is needed or desired, I have based my calculations on that amount for the capacity of the reservoir. One hundred and thirty horse-power with 200 feet pressure requires 240,000 cubic feet per day, or 38,400,000 cubic feet for six months, or one hundred and sixty days of ten hours. There still remains 16,243,216 cubic feet for irrigation purposes (the reservoir containing 54,643,216 cubic feet), which at three feet per day of ten hours (largely in excess of what can possibly be used), you will have water for one hundred and fifty days, or five months.

"For drinking and domestic purposes I consider the water of Sutter Creek, as it now runs, far more wholesome than the Sacramento River, or the Alameda Creek, which is pouring into reservoirs for San Francisco

"The ditches which convey the waters of Sutter Creek to the reservoir site and to the Ione Coal and Iron Company's property are of 575 inches capacity and are in good condition, and could be enlarged to 750 ches at comparatively small expense.

"As to the reservoir site offered and obtainable, there is certainly none better in the State, and as to the water supply in Sutter Creek, there is unquestionably enough for any and all purposes, and I certainly rec-

ommend their purchase."

Colonel A. W. von Schmidt, in a supplemental report made to the Board, stated, referring to the reservoir offered in this proposition: "With a dam 50 feet high the water can stand at 40 feet and will cover about 30 acres of land. The average depth will be 30 feet; in gallons, 294,030,000. A Pelton waterwheel, with a head of 250 feet, distance, three miles of pipe, fall, 1 foot in 63 feet, will give one hundred and eighteen horse-power; will use 295 cubic feet per minute, or 2,212 gallons; for ten hours, 1,327,200 gallons.

"Now, we have in the reservoir, say, 294,030,000 gallons, which divided by 1,327,200, equals 222 days, which would be the supply in reservoir. Taking 365 days for the year, less 54 Sundays, equals 311 working days, less 222 days water in reservoir, equals 89 days shortage.

"But we can calculate on five months of rain to replenish the reservoir, therefore you will have all the water and power for one hundred horsepower, as above stated, by this reservoir system. This system gives you clear water from Mule Creek; the reservoir will fill every winter, and there are no tailings from quartz mills to contaminate the water."

The report of Engineer Taylor being favorable to the Sutter Creek water system, taken in conjunction with the Henderson reservoir, and Engineer von Schmidt joining with him in commendation of the reservoir site and its storage capacity, the Board concluded to accept this offer, provided satisfactory, clear, and valid titles could be given to the State therefor, and a contract was made and entered into with the parties offering the water rights, ditches, reservoir site, etc., to that effect.

The firm of Cross & Denson, attorneys at law, were employed to examine into and pass upon the titles to all the properties mentioned heretofore as having been favorably considered by the Board.

These attorneys rendered written opinions, stating that they found the titles to all the lands offered were vested in the parties offering them to the State, and that proper deeds or grants from them would convey and vest good and valid fee simple titles in the grantee.

In the matter of water and water rights they filed the following written opinion:

To the honorable the State Board of Prison Directors:

San Francisco, June 12, 1890.

GENTS: We have, in compliance with your request, made an examination into the matter of water rights on Sutter Creek, in Amador County, in this State. As you are well aware, the title to running water is a very difficult and embarrassing question, owing well aware, the title to running water is a very difficult and embarrassing question, owing chiefly to the fact that the records, even when complete, are not a reliable guide as in the case of title to land. Most of the waters flowing in the creeks of the foothill regions, especially in the mining districts of California, were appropriated in the early days of the State's history, when business was usually done in haste, and seldom with accuracy; and while valid appropriations of the waters were made and perfect titles to the flow and use of waters acquired, it is seldom that a good and complete chain of record to a water right can be found. And since the right to the waters of a stream depends mainly upon the facts of actual appropriation and continuous diversion, it becomes necessary in determining as to such rights to examine the records, and in addition thereto also to investigate the facts independent of the records.

This case is not an exception to the general rule as to incompleteness of chain of recortitle; but we have been furnished with a map made by Engineer Brown, under your order from actual surveys and inspection; and with many affidavits made by persons who or have been residents of the vicinity, and whose intimate knowledge of the facts enae them to speak with intelligence and gives their testimony great weight; and from facts and information thus presented, and supplementing the records, we are of or

that B. and M. Isaacs have the first and superior right, over all other persons, to the appropriation, diversion, and use of more than 750 inches (miner's measurement) of the waters of Sutter Creek, and which may be diverted at the head of the Empire Ditch, or at any point below. And they also have the right under the law to run said quantity of water into reservoir and store the same.

REPORT OF PRESTON SCHOOL OF INDUSTRY.

We submit herewith all abstracts of records, affidavits, and memoranda, the map made by Mr. Brown, and an abstract or tabulated classification of the more material data.

which may be preserved among your archives. Respectfully submitted.

CROSS & DENSON, Attorneys at Law.

With these reports and opinions before the Board—Engineer Taylor's as to the quantity and sufficiency of water and water power, and the attorneys at law, Cross & Denson, as to the validity of the titles—it finally closed with the parties proffering the properties for sale, and the State of California became the owner of them in the latter part of June, 1890.

The Board thereupon elected Schulze & Meeker as the architects to prepare plans and specifications of a main Administration Building, with an annex, for the Preston School of Industry, to be erected upon the selected site. The general plans as submitted by them were formally adopted, and the buildings are now in process of construction.

The main Administration Building will have a frontage of one hundred and sixty-eight feet, and a depth of fifty feet; is to be three stories high above a basement. From the rear center will extend a corridor thirty feet in length and nine feet wide, connecting the main Administration Building with its annex, which will be two stories high above a basement. The main Administration Building is to be built of common bricks, faced with Sacramento stock bricks (bricks of a quality and finish a medium between common and pressed bricks), and trimmed with Ione red sandstone. There is to be a water and clock tower, one hundred and forty-eight feet high, to the right of the main entrance to the building. The corridor and annex are to be built of common bricks. The structure, when finished, will be a model of its kind, for the Board has followed the implied wishes of the Legislature in combining all the excellencies of edifices of a similar character found in the East by President Devlin.

Contracts have been let for such portions of the work of erection as would come within the limit of the present appropriation. The amount of money being at your disposal for the making of such contracts being about \$75,000—the remainder having been expended in the purchase of land, the expenses incidental to and including the purchase of the water system, reservoir site, and the building of the dam, and other expenditures necessary in the various interests of the school. A full and complete statement of all the moneys received from the State Treasurer upon warrants drawn by the State Controller, and how the same has been expended, is hereto attached. Also a statement of the contracts entered into by the Board, and which are payable out of the present appropriation.

ESTIMATES OF APPROPRIATION NECESSARY TO COMPLETE AND FURNISH THE PRESTON SCHOOL OF INDUSTRY, AND PROVIDE FOR THE MAINTENANCE THEREOF.

In compliance to the request of the Board, I have, so far as possible, prepared estimates of cost necessary to complete and furnish the school, so as to place it in full working order for the reception of the wards of the State, and for their maintenance for the next two years.

I have endeavored to limit myself to the actual and pressing wants of the institution, and have constantly kept well in mind your instructions and expressed intentions of not to petition the Legislature for a larger appropriation than is actually demanded and absolutely necessary under existing circumstances.

#### ESTIMATES OF COST.

Completion of the main Administration Building and its annex (exclusive of tower), including elevator, fire and burglar-proof vault, ovens, artificial stone work, joiners' work, stair work, painting, plastering, tiling, plumbing and sewering, heating, glass, mantels and grates, hardware, roofing, etc  Finishing tower \$8,250 00 Tower clock 1,880 00	\$61,800 <b>00</b>
Three cottages, or family homes, capacity forty inmates	10,100 00
One stable, capacity twenty horses	9,500 00
One stable, capacity twenty horses One barn, capacity twenty cows	7,500 00
One Commissary Building One Power and Trades School Building (shoe and harness shop, blacksmith	8,750 00
and iron working shop tailor and sewing shop carpenter and woodwork-	
and iron working shop, tailor and sewing shop, carpenter and woodworking shop, tin and plumbing shop, printing office, electric light machinery room, ice machinery room, power machinery room, sawmill room, laundry).	
room, ice machinery room, power machinery room, saw mill room, laundry).	35,000 00
Entrance gatewaysArchitect's fees	1,800 00 9,724 00
Total for finishing school	
The above estimates furnished by Henry A. Schulze, Architect of the Boar	d.
Furnishing and Fitting of Buildings.	
Blankets, comforters, etc. \$3,500 00	1
Estimates by Levi Strauss & Co., Murphy, Grant & Co.,	
Estimates by Levi Strauss & Co., Murphy, Grant & Co., Golden Gate Woolen Manufacturing Co., and California Fur-	,
niture Co. Carpets, oilcloths, etc. 3,700 00	
Carpets, oilcloths, etc. 3,700 00 Estimates by C. M. Plum & Co., W. and J. Sloane & Co., D.	
N. and E. Walter & Co.	
Crockery 900 00 Estimates by Wanglenhein, Sternheim & Co., Nathan, Dohr-	
mann & Co.	
Bed linen, table linen, toweling, etc. 1,350 00 Estimates by Levi Strauss & Co., Murphy, Grant & Co.	Ļ.
Ranges, kitchen utensils, etc. 1,700 00	Ī
Estimates by Holbrook, Merrill & Stetson, W. W. Montague	
Ranges, kitchen utensils, etc. 1,700 00 Estimates by Holbrook, Merrill & Stetson, W. W. Montague & Co., Geo. W. Tay & Co.	
Wood and willowware 100 00 Estimates by Armes & Dallam, A. S. Hopkins & Bro.	
Furniture 13,475 00	,
Estimates by California Furniture Co., C. M. Plum & Co., West Coast Furniture Co.	
Fire hose, plugs, hose carts, etc.	)
Fire hose, plugs, hose carts, etc. 1,175 00 Estimates by W. T. Y. Schenck.	
Drug store outfit	,
Laundry department 2,780 00	)
Laundry department 2,780 00 Estimates by Troy Laundry Machinery Co., Pacific Laundry	
Machinery Co. Telephone and electric call outfit 900 00	ı
Estimates by Sunset Telephone-Telegraph Co.	
Electric light system 15,000 00 Estimates by Thomson-Houston Electric Co., Westinghouse	,
raectric Co., ranson General Baectric Co.	
Office fittings and supplies 1,000 00	)
Estimates by H. S. Crocker & Co. Hay and store scales 600 00	
Office fittings and supplies 1,000 00 Estimates by H. S. Crocker & Co. Hay and store scales 600 00 Estimates by Howe Scale Co., Fairbanks Scale Co.	46,995 00
	e051 100 00
Amount carried forward	φ201,100 UU

Amount brought forward		\$251,199 00
General Furnishings and Fittings.		
Horses, cows, hogs, etc. Estimates by B. Isaacs, Wm. Woolsey.	\$5,500 00	
Wagons and other vehicles.  Estimates by Studebaker Bros. Mfg. Co., Baker & Hamilton, Deere Implement Co.	1,875 00	
Harness Estimates by A. A. Van Voorhies & Co., Main & Winchester, Studebaker Bros. Mfg. Co.	500 00	
Farm tools and implements  Estimates by Baker & Hamilton, Deere Implement Co.	900 00	
Estimates by B. Isaacs & Bro.	2,000 00	
Ice machine outfit	6,000 00	16,775 00
Fittings and Furnishings for Trades School.		
Blacksmithing and iron working	\$5,000 00	
Carpentering and woodworking  Estimates by Baker & Hamilton, James G. Kennedy, Supt.	7,000 00	
Printing, etc.  Estimates by Tatum & Bowen.  Harnessmaking etc.	2,000 00	
Estimates by A. A. Van Voorhies & Co., Main & Winchester.	350 00	
Boot and shoemaking Estimates by Rosseter, Smith & Stoll, Williams-Marvin Co.	900 00	
Tailoring and sewing  Estimates by the Singer Sewing Machine Co.	1,500 00 600 00	
School-room outfit Estimates by Bancroft Bros. & Co. Tinning and plumbing		
Tinning and plumbing Estimates by Holbrook, Merrill & Stetson.		19,350 00
${\it General~Additional~Expenditures}.$		
Stocking of farm and grounds, including labor, trees, vines, shrubbery, plants, etc.  Sewerage system  Water supply system  Books for library  Machinery for power house, including wheels, shaftings, pipes,	\$15,000 00 10,000 00 10,000 00 1,000 00	
etc.,	5,000 00	41,000 00
Maintenance Estimate.		
Two hundred and twenty-five inmates, one year, \$200 each		
Total expenditures		\$380,000 00
In estimating the amount necessary to provide for farm and grounds, I have figured as follows:	the stock	ing of the
Six laboring men at \$2 per day, twenty-five working days per month, for two years, equalsOne head farmer and gardener at \$100 per month, for two years,	\$7,200 00	
equals Incidentals Stock of trees, vines, plants, hot houses, tools for excavation works, and blastings	2,400 00 400 00 5,000 00	)
		\$15,000 00

In some cases, perhaps, I have overestimated, but in others I have erred in underestimating the amount adequate to the needs of the institution, and undoubtedly omissions have occurred by reason of the

nature of circumstances, it being impossible to think of everything necessary to the furnishing of an institution of the size of this one.

In conclusion, I would respectfully state to the Board that I have labored to the best of my ability to protect the Board from asking for any unnecessary moneys from the Legislature, and it is my opinion that no less amount than the estimated sum will satisfy the pressing demands of the Preston School of Industry for the next two years.

My report has been delayed by the difficulties encountered in obtaining estimates from those better versed in such matters than myself.

I have to thank the Board for the many evidences of kind courtesy extended towards me in the past two years, thus making the duties of my office a genuine pleasure.

Respectfully submitted.

BRAINARD F. SMITH, Secretary of the Preston School of Industry.

DECEMBER 31, 1890.

#### CASH ACCOUNT.

#### RECEIPTS.

Received from State Treasurer on Controller's warrants		\$77,195	70
DISBURSEMENTS.			
Water system accounts Real estate accounts Buildings accounts Office fixtures accounts Tools and fixtures accounts Farm accounts (clearing grounds) Office rents Salaries Postage Traveling, etc. Expense account Repairs to tools account. R. T. Devlin (trip East)	208 30 170 73 602 00 186 00 2,767 75 60 00 635 85 85 45 22 85		
•		\$77,195	70

The above cash receipts and disbursements are up to and inclusive of December 31, 1890.

#### INDEBTEDNESS ACCOUNT.

Richardson & Gale (mason's contract) \$57,514 00		
Smilie Bros. (carpenter's contract) 13.789 00		
B. & M. Isaacs (dam contract) 2,157 00		
Timothy Hanley (exceptation contract) 437.50		
Henry A. Schulze (architect's fees). 2,162 30		
Salary payroll and sundry claims		
· · · · · · · · · · · · · · · · · · ·	<b>\$77,309</b> 80	
The above indebtedness account includes all contracts and claims up to and of December 31, 1890.  The indebtedness account is payable out of the present appropriation of \$160.		
The indebtedness account is payable out of the present appropriation of \$100,	000.	
SUMMARY.		

Amount appropriated for forty-first and forty-second fiscal years.  Cash expenditures	\$160,000 (	<b>)</b> 0
Total	154,505	50
Balance December 31, 1890, to meet current expenses until July 1, 1891	\$5,494	50